EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	516	(556/148).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/12/03 19:15
L2	279	(562/565).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/12/03 20:14
L3	88	(252/182.11).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/12/03 20:17
L4	87	container adj comprising adj compound	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/12/03 20:17

10/563,762

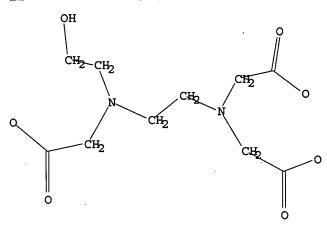
(FILE 'HOME' ENTERED AT 17:23:26 ON 03 DEC 2006)

FILE 'REGISTRY' ENTERED AT 17:24:22 ON 03 DEC 2006 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 17:24:55 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -483 TO ITERATE

100.0% PROCESSED

483 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

8342 TO 10978

PROJECTED ANSWERS:

2 TO 124

L2

2 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 17:25:00 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED -

9727 TO ITERATE

100.0% PROCESSED

9727 ITERATIONS

59 ANSWERS

SEARCH TIME: 00.00.01

L3

59 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

TOTAL SINCE FILE

SESSION

FULL ESTIMATED COST

ENTRY 166.94 167.36

FILE 'CAPLUS' ENTERED AT 17:25:04 ON 03 DEC 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 3 Dec 2006 VOL 145 ISS 24 FILE LAST UPDATED: 1 Dec 2006 (20061201/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

=> s 13

L4 1829 L3

=> s 14 and py<2003 22829891 PY<2003

L5 1595 L4 AND PY<2003

=> s 15 and sodium salt 1074132 SODIUM 781755 SALT

60102 SODIUM SALT

(SODIUM(W)SALT)

L6 90 L5 AND SODIUM SALT

=> s l6 and aqueous solution 175603 AQUEOUS 262443 SOLUTION

30993 AQUEOUS SOLUTION

(AQUEOUS (W) SOLUTION)

L7 0 L6 AND AQUEOUS SOLUTION

=> d 16 1-90 bib abs

L6 ANSWER 1 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:722135 CAPLUS

DN 140:189698

TI Preparation of nano-sized fluoride-based upconversion fluorescent material

IN Yi, Guangshun; Sun, Baoquan; Chen, Depu; Zhou, Yuxiang; Cheng, Jing

PA Tsinghua Univ., Peop. Rep. China; Beijing Boao Biochip Co., Ltd.

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 10 pp. CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

	PATEN	1 T	10.			KIN	D	DATE			APPL:	ICAT:	ION 1	NO.		D	ATE		
			- -				-									-			
ΡI	CN 13	3767	759			Α		2002	1030	(CN 2	002-	1166	79		2	00204	415 <	
	WO 20	030	872	59		A1		2003	1023	1	WO 2	003-0	CN26	В		2	00304	415	
	W	V :	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	
			LS,	LT,	LŪ,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	OM,	PH,	
			PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,	
			UA,	ŪĠ,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW							
	R	: WS	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZM,	ZW,	AM,	ΑZ,	BY,	
			KG,	ΚZ,	MD,	RU,	ТJ,	TM,	AT,	ΒE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	

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FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                            AU 2003-223830
                                20031027
                                                                   20030415
     AU 2003223830
                         A1
                                            EP 2003-720096
                                                                   20030415
     EP 1495088
                          Α1
                                20050112
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                            JP 2003-584204
                                20050908
                                                                   20030415
                         T2
                                                                   20050603
                                            US 2005-511363
     US 2006003466
                          A1
                                20060105
PRAI CN 2002-116679
                          Α
                                20020415
     WO 2003-CN268
                          W
                                20030415
     The title fluorescent material is prepared by the following steps of (1)
AB
     dissolving Y2O3, La2O3, Gd2O3, Yb2O3, Er2O3, Tm2O3 and Ho2O3 in HCl or
     HNO3, evaporating to remove HNO3 and HCl, adding water to obtain a solution;
(2)
     adding amine acids (its salt) complexing agent; (3) adding water- soluble
     fluoride to obtain a precipitate; (4) separating, and drying; and (5)
calcining at
     300-450° for 1-10 h. The molar ratio of La (Y or Gd) : Yb : Er (Tm
     or Ho) is 70-90:0-29:0.001-15. The complexing agent is selected from one
     of EDTA, diethylenetriamine pentaacetatic acid,
     hydroxyethylethylenediaminetriacetic acid, 1,2-
     diaminocyclohexanetetraacetic acid, glycol di-Et ether diamine tetraacetic
     acid, triethyltetraamine hexaacetic acid (or theirs sodium
     salt); and the fluoride from NaF, KF, NH4F and HF. The product
     has particle size of 37-166 nm, and uniform particle size distribution.
     ANSWER 2 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
AN
     2002:550700 CAPLUS
DN
     137:279578
ΤI
     Reversible metallo-supramolecular block copolymer micelles containing a
     soft core
     Gohy, Jean-Francois; Lohmeijer, Bas G. G.; Schubert, Ulrich S.
ΑU
     Laboratory of Macromolecular and Organic Chemistry, Center for
CS
     Nanomaterials (cNM), Eindhoven University of Technology, Eindhoven, 5600
     MB, Neth.
     Macromolecular Rapid Communications (2002), 23(9), 555-560
SO
     CODEN: MRCOE3; ISSN: 1022-1336
PB
     Wiley-VCH Verlag GmbH
     Journal
DT
     English
LΑ
     An amphiphilic metallo-supramol. poly(ethylene-co-butylene)-block-
AΒ
     poly(ethylene oxide) diblock copolymer containing a bis(2,2':6',2''-
     terpyridine)ruthenium(II) complex as a supramol. connection between the
     two constituting blocks was used to prepare stable aqueous micelles.
     micelles were characterized by dynamic light scattering and atomic force
     microscopy. Individual micelles were observed together with aggregates of
     micelles. Only the addition of a large excess of competitive ligand caused
     the cleavage of the very stable ruthenium complex.
RE.CNT 17
              THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 3 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
     2002:184869 CAPLUS
AN
DN
     136:236684
     Cosmetic and pharmaceutical compositions containing chelating and
TΙ
     sequestering agents
     Fernandez-Kleinlein, Elena; Hauser, Matthias; Biehl, Petra; Von Stetten,
IN
     Otto
PA
     Johnson & Johnson G.m.b.H., Germany
SO
     PCT Int. Appl., 27 pp.
     CODEN: PIXXD2
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DT

LΑ

FAN.CNT 1

Patent English

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APPLICATION NO.
                                                                DATE
    PATENT NO.
                       KIND
                              DATE
                                         ______
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     _____
                       _ _ _ _
                              _____
                                          WO 2001-EP10393
                                                                20010907 <--
ΡI
    WO 2002019981
                       A2
                              20020314
                        A3
                              20030123
    WO 2002019981
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
            RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
            UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                        CA 2001-2421512 20010907 <--
    CA 2421512
                         AA
                              20020314
                                        AU 2002-12219
                                                                20010907 <--
                         A5
                               20020322
    AU 2002012219
                                       EP 2001-980358
                                                                20010907
    EP 1335700
                        A1
                               20030820
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                                          20010907
    JP 2004508316
                        T2
                              20040318
                                         JP 2002-524466
                                                                20010907
    BR 2001013751
                        Α
                               20040817
                                          BR 2001-13751
                                          US 2003-380083
                                                                20030911
                       A1
                               20040318
    US 2004052826
                       Α
                               20000911
PRAI EP 2000-203131
                               20001026
    EP 2000-203737
                       Α
                        W
                               20010907
    WO 2001-EP10393
OS
    MARPAT 136:236684
    Pharmaceutical and cosmetic compns. comprise a chelating and a
AB
    sequestering agent, and optionally containing further ingredients.
                                                                      The use of
    such compns. makes water more compatible with the skin and prevents or
    treats skin conditions such as eczema, irritation and skin dryness. Thus,
    a powder formulation contained NaHCO3 41.67, citric acid 52.38, sodium
    poly(aspartic acid) 1.19, iminodisuccinate 3.57, Tapioca starch 0.60, and
    perfume 0.60%.
    ANSWER 4 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
    2002:107900 CAPLUS
AN
    136:153132
DN
    Bactericidal and non-bactericidal solutions for removing biofilms.
ΤI
    Barbeau, Jean; Gravel, Denis; Habi, Abdelkrim
IN
    Universite De Montreal, Can.
PΑ
    U.S. Pat. Appl. Publ., 9 pp., Cont.-in-part of U.S. Ser. No. 187,249,
SO
    abandoned.
     CODEN: USXXCO
DT
    Patent
    English
LA
FAN.CNT 2
                                         APPLICATION NO.
    PATENT NO.
                       KIND
                              DATE
                                                               DATE
                               -----
                                         ______
                                                                ______
                               20020207
                                         US 2001-851802
                                                                20010509 <--
PΙ
    US 2002016278
                        A1
                      B2
B2
                               20040713
    US 6762160
PRAI US 1998-187249
                               19981106
     This invention relates to compns. for removing biofilms from contaminated
     surfaces. The compns. minimally comprise a detergent and a salt or a
     salt-forming acid. Preferably, the compns. comprise a detergent and a
     salt-forming acid, to provide salts and acids in equilibrium, in such a way
     that the biofilm is rapidly dismantled and removed in such an environment.
     The compns. may also comprise a bactericide, for destroying bacteria.
     Thus, a composition containing mandelic acid 1, H2O2 5, EDTA 1, sodium dodecyl
     sulfate 1, and NaOH 10% removed and destroyed biofilms.
             THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 56
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

L6 ANSWER 5 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:84589 CAPLUS

DN 136:136657

```
Hard surface cleaner containing nonionic surfactants
ΤI
     Kerobo, Charles O.; Holland, Richard J.; Welch, Michael C.; Gessner,
ΤN
     Suzanne M.; Patterson, Sonia J.
PA
     BASF Corporation, USA
```

U.S., 8 pp., Cont.-in-part of U.S. Ser. No. 345,212, abandoned. SO CODEN: USXXAM

DTPatent English LA FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6342474	B1	20020129	US 1999-466291	19991217 <
CA 2312648	AA	20001230	CA 2000-2312648	20000628 <
PRAI US 1999-345212	B2	19990630		
US 1999-466291	Α	19991217		

There is provided an aqueous hard surface cleaning composition comprising (a) a AB water soluble organic solvent; (b) a nonionic surfactant selected from the group

consisting of an alc. alkoxylate, an alc. block alkoxylate, a polyoxyethylene polyoxypropylene block surfactant, and mixts. thereof; and (c) an effective amount up to about 5% of a cleaning auxiliary selected from the group consisting of methylglycine diacetic acid, hydroxyethyl ethylenediamine triacetic acid, diethylenetriamine pentaacetic acid, ethylenediamine tetraacetic acid, nitrilotriacetic acid, salts thereof, and mixts. thereof; and (d) optionally, a thickening agent. The compns. are useful for cleaning hard surfaces with a min. of wiping and scrubbing.

THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 18 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ANSWER 6 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
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2002:39596 CAPLUS AN

136:87563 DN

Cleaning composition and method for removing vehicle road-film ΤI

Levitt, Mark D.; Klos, Terry J.; Besse, Michael E.; Hei, Robert D.; Hoyt, IN Jerry D.; O'Connor, Cathleen; Man, Victor Fuk-pong

Ecolab, Inc., USA PA

U.S., 14 pp., Cont.-in-part of U.S. Ser. No. 295,035. SO CODEN: USXXAM

DT Patent

LAEnglish

FAN.CNT 4

FAN.	PATENT NO.	KIND DATE	APPLICATION NO.	DATE		
ΡI	US 6339054		5 US 1999-461861	19991215 <		
	US 6350725		6 US 1999-295035	19990420 <		
			6 CA 2000-2370531			
			6 WO 2000-US6150			
			, BA, BB, BG, BR, BY, CA,			
			, DM, EE, EE, ES, FI, FI,			
	GH, GM	, HR, HU, ID, IL, IN	, IS, JP, KE, KG, KP, KR,	KR, KZ, LC,		
	LK, LR	, LS, LT, LU, LV, MA	, MD, MG, MK, MN, MW, MX,	NO, NZ, PL,		
	PT, RO	, RU, SD, SE, SG, SI	, SK, SK, SL, TJ, TM, TR,	TT, TZ, UA,		
			, AZ, BY, KG, KZ, MD, RU,			
			, SZ, TZ, UG, ZW, AT, BE,			
			, IT, LU, MC, NL, PT, SE,			
			, MR, NE, SN, TD, TG	20, 20, 32,		
	, CG, CI	, CM, GA, GN, GN, MD	9 NZ 2000-514669	20000309		
	NZ 514669	A 2003062	9 NZ 2000-514009	20000305		
	AU 767504	B2 2003111	3 AU 2000-35207	20000309		
			2 US 2000-602756			
	US 2002128169	A1 2002091	2 US 2001-999168	20011130 <		
	US 6864220	B2 2005030				
	US 2002173438	A1 2002112	1 US 2001-999173	20011130 <		
		B2 2003080	5			
			6 US 2003-389521	20030314		

20050915 US 2005-75365 20050307 US 2005199272 **A1** PRAI US 1999-295035 **A2** 19990420 US 1999-461861 Α 19991215 WO 2000-US6150 W 20000309 A1 20000623 US 2000-602756 A3 US 2001-999168 20011130

AB A concentrate (as a one-part or two part solution) and a ready-to-use or diluted

formulation for an aqueous vehicle cleaner can remove a wide range of different types of traffic film using either low pressure application, hand pressure application, water jet spray apparatus, clean-in-place systems or other manual or mech. washing systems, in single or multiple liquid application steps. The compns. may comprise, for example, one or more solns. that each or collectively contain or comprises: (a) at least one anionic surfactant; (b) at least one poly[oxyalkylene] ammonium cationic surfactant; and (c) an alkaline agent that may provide a pH (when the finished product is diluted to 0.5-5 wt% in water) of about 9-13. Optional addnl. ingredients may comprise at least one polycarboxylic acid chelating agent (preferably an aminocarboxylic acid chelating agent), at least one non-ionic or amphoteric surfactant, at least one hydrotrope, inorg. and/or organic acids and at least one silicate. Certain formulations have been found to be shelf stable as one-part concentrate or ready-to-use solns., even with significantly different properties amongst the components.

RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:35793 CAPLUS

DN 136:107220

TI Low-irritation skin cleansers and their application using nets

IN Mori, Toshiharu; Kono, Masato; Yamaguchi, Hiroshi

PA Nikko Seiyaku K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 2002012538	A2	20020115	JP 2001-47636	20010223 <
PRAI	JP 2001-47636		20010223		

AB The cleansers contain ≥2 anionic surfactants 5-50, amphoteric surfactants 0.5-30, chelating agents 0.01-2.0, moisturizers 0.0001-0.5, and polymers 0.001-5.0 weight%. The cleansers show high cleansing power, good foaming, and low irritation. A body cleanser formulations are given.

- L6 ANSWER 8 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 2001:888702 CAPLUS
- DN 136:141468
- TI Analysis of Hanford-related organics using matrix-assisted laser desorption ionization time-of-flight mass spectrometry
- AU Campbell, J. A.; Hess, W. P.; Lohman, J. R.; Goheen, S. C.
- CS Pacific Northwest National Laboratory, Richland, WA, 99352, USA
- SO Journal of Radioanalytical and Nuclear Chemistry (2001), 250(2), 247-253

CODEN: JRNCDM; ISSN: 0236-5731

- PB Kluwer Academic Publishers
- DT Journal
- LA English
- AB Matrix-assisted laser desorption/ionization coupled with time-of-flight mass spectrometry (MALDI/TOF-MS) was used for the anal. of low-mol. phosphate compds. in Hanford tank wastes. The mass spectra of these compds. indicate protonated peaks as well as Na adducts. Anal. methods presently used for the anal. of the phosphate-related orgs. are both time

consuming and labor intensive. A promising alternative is MALDI/TOF-MS. The MALDI process produces both pos. and neg. ions directly and very little sample is required. In addition, there is limited sample preparation and

minimal hazardous waste production

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L6 ANSWER 9 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
```

AN 2001:816813 CAPLUS

DN 135:360038

TI Well treatment fluids comprising chelating agents

IN Frenier, Wayne W.

PA Sofitech N.V., Belg.; Services Petroliers Schlumberger; Schlumberger Canada Limited; Schlumberger Technology B.V.; Schlumberger Holdings Limited

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

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DATE
                        KIND DATE
                                          APPLICATION NO.
     PATENT NO.
                               _____
                                           ______
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                               20011108
                                           WO 2001-EP4511
                                                                  20010420 <--
PΙ
    WO 2001083639
                         A2
     WO 2001083639
                         A3
                               20020321
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
            HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
            LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
            RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,
            YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                               20020820
                                          US 2000-563557
                                                                  20000503 <--
     US 6436880
                         B1
     EP 1278939
                         A2
                               20030129
                                          EP 2001-925560
                                                                  20010420
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                               20030930
                                          EG 2001-449
                                                                  20010502
     EG 22858
                         Α
PRAI US 2000-563557
                         Α
                               20000503
     WO 2001-EP4511
                         W
                               20010420
```

An acidic fluid that is useful in stimulation and workover operations, and in particular, for the control of iron in acidizing operations, the removal of alkaline earth carbonate scale in scale removal operations, and matrix or fracture acidizing operations, comprises an acid, such as hydrochloric acid; water; and a hydroxyethylaminocarboxylic acid. Preferred hydroxyethylaminocarboxylic acids are hydroxyethylenediaminetriacetic acid (HEDTA) and hydroxyethyliminodiacetic acid (HEIDA). Also disclosed herein are methods of controlling iron, removing alkaline earth carbonate scale, or matrix or fracture acidizing, involving the use of the acidic fluid.

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L6 ANSWER 10 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
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AN 2001:717367 CAPLUS

DN 135:274604

PA Lion Corp., Japan

DT Patent

LA Japanese

FAN.CNT 1

TI Electrolytic water for cleaning, production method thereof, and cleaning system for cloths and tableware therewith

IN Otaguro, Takahiro; Kashiwada, Toshinobu

SO Jpn. Kokai Tokkyo Koho, 26 pp. CODEN: JKXXAF

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APPLICATION NO.
                        KIND
                               DATE
                                                                  DATE
     PATENT NO.
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                                           _______
                                                                  _____
     _____
                               _____
                                           JP 2000-85136
                                                                  20000324 <--
                         A2
                               20011002
PΙ
     JP 2001271098
PRAI JP 2000-85136
                         .
                               20000324
     Title water is obtained by electrolysis of (electrolytic) water containing (a)
     electrolytes, (b) metal chelating agents, and optionally (c) surfactants
     and/or solvents. Thus, a water solution containing 30% sodium chloride, 6%
DTPA
     5Na, and 30% ethoxylated Diadol 13 was electrolyzed showing no scale
     deposition on the electrode or apparatus wall and the alkaline electrolytic
water
     solution gave a good cleaning effect on a fabric.
     ANSWER 11 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
     2001:434795 CAPLUS
NΑ
     135:30287
DN
     Stable bactericidal and fungicidal liquid preparations for industrial
TI.
     Beilfuss, Wolfgang; Gradtke, Ralf
TN
PA
     Air Liquide Sante (International), Fr.
SO
     PCT Int. Appl., 21 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                        KIND
                               DATE
                                           APPLICATION NO.
                                                                  DATE
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                         A2
                                           WO 2000-IB1823
                                                                  20001206 <--
ΡI
     WO 2001041570
                               20010614
                         A3
    WO 2001041570
                               20011227
         W: BR, CN, ID, JP, KR
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
            PT, SE, TR
                                           DE 1999-19961621
                                                                  19991213 <--
     DE 19961621
                         A1
                               20010705
                         C2
     DE 19961621
                                20021114
                                           BR 2000-16018
                                                                  20001206 <--
     BR 2000016018
                         Α
                                20020723
     EP 1239731
                         A2
                               20020918
                                           EP 2000-978990
                                                                  20001206 <--
     EP 1239731
                         B1
                               20041027
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI, CY, TR
                                           JP 2001-542755
                                                                  20001206
     JP 2003515614
                         T2
                               20030507
     ES 2231286
                         Т3
                               20050516
                                           ES 2000-978990
                                                                  20001206
                                           US 2000-734646
     US 2001021711
                         A1
                               20010913
                                                                  20001213. <--
     US 2005113425
                         A1
                               20050526
                                           US 2004-967311
                                                                  20041019
PRAI DE 1999-19961621
                         Α
                               19991213
     WO 2000-IB1823
                         W
                               20001206
     US 2000-734646
                         A3
                               20001213
     Stable microbicidal compns. for industrial products comprise (a) at least
AB
     one bactericidal N-formal, which is a condensation product of formaldehyde
     and amines, preferably alkanolamines, (b) at least one isothiazolone
     derivative fungicide, and (c) at least one stabilizer, which also has
     microbicidal action.
     ANSWER 12 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
1.6
     2000:672966 CAPLUS
AN
DN
     133:268436
     Cleaning method of stains derived from alkenylsuccinic anhydride type size
TI
IN
     Yamaguchi, Zenji; Yasuda, Koji
PA
     Hakuto K. K., Japan
     Jpn. Kokai Tokkyo Koho, 10 pp.
SO
     CODEN: JKXXAF
DT
     Patent
     Japanese
LA
FAN.CNT 1
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 2000265192	A2	20000926	JP 1999-73564	19990318 <
PRAI	JP 1999-73564		19990318		

OS MARPAT 133:268436

The method uses an aqueous alkali cleaning solution containing aminocarbonic acid-type and/or oxycarbonic acid-type compds. having chelating power with Ca, Mg, and Al. A cleaning solution contained 0.1% EDTA with pH adjusted to 8.5 by NaOH, showing good detergency.

- L6 ANSWER 13 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 2000:665515 CAPLUS
- DN 133:210254
- TI Stabilizers for manufacture of sodium percarbonate bleaching agents with improved solubility
- IN Lee, Sang Hwa; Kwaq, Chong Yun; Lee, Jong Pill; Cho, Han Seog
- PA Oriental Chemical Industries, S. Korea
- SO Ger. Offen., 8 pp.
 - CODEN: GWXXBX
- DT Patent
- LA German
- FAN.CNT 2

PAN.								
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
ΡI	DE 19911202	A1	20000921	DE 1999-19911202	19990313 <			
	DE 19911202	B4	20051103					
	GB 2347671	A1	20000913	GB 1999-5277	19990308 <			
	GB 2347671	B2	20030924					
	US 6218352	B1	20010417	US 1999-265261	19990309 <			
	FR 2791053	A1	20000922	FR 1999-3308	19990317 <			
	FR 2791053	B1	20010511					
PRAI	JP 1998-249245	A	19980903					
	DE 1999-19911202	Α	19990313					
	DE 1999-19911202	Α	19990313					

Na2CO3 with H2O2, magnesium compds., and three types of stabilizers: (1) aliphatic or aromatic amines and their salts with one or more functional carboxyl, sulfone, and phosphono groups, (2) Cl0-20-fatty acid and -polyol esters or esters with the Cl0-20-fatty acids and sugar esters, including polyoxyethylene esters, or aliphatic or cyclic C≥4-hemiacetals or acetals, and (3) polymers (with d.p. 50-10,000) of general formula [CH2CHX]m-[CHYCHZ]n, in which m + n = 100%; X = OH, Ph, PhSO3M, or CO2H; Y and Z are H, OPO(OH)2, OCOR, or COOM; R = Cl-4-alkyl; and M = H or alkali metal. The compns., which are characterized by improved water solubility, preferably are composite of 0.1-5 weight% components (1) or (2), and 0.01-10 weight% component (3), per 100 weight% Na2CO3.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L6 ANSWER 14 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 2000:151347 CAPLUS
- DN 132:196441
- TI Composition of sodium percarbonate having improved solubility
- IN Lee, San Hwa; Kwan, Chon Yung; Lee, Jong Pil; Choi, Han Seo
- PA Oriental Chemical Industries, S. Korea
- SO Jpn. Kokai Tokkyo Koho, 8 pp.
 - CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 2000072414	A2	20000307	JP 1998-249245	19980903 <
	JP 2995470	B2	19991227		
	FR 2791053	A1	20000922	FR 1999-3308	19990317 <

FR 2791053 B1 20010511 PRAI JP 1998-249245 A 19980903 DE 1999-19911202 A 19990313

AB Sodium percarbonate which is obtained by reacting anhydrous sodium carbonate with hydrogen peroxide is mixed with compound selected from Mg compds., sodium silicate, and specific compds. to give a product having improved solubility The specific compds. are selected from (1) aliphatic or aromatic

amine

and their salts containing carboxyl, sulfonic, or phosphate functional group, (2) esters from C10-20 fatty acid and polyat. alc., esters from C10-20 fatty acid and sugar, esters from polyoxyethylene, and C≥4 cyclic or open-chained hemi-acetal and acetal, and (3) polymer having polymerization degree 50-10,000 and a general formula -(CH2-CHX)m-(CHY-CHZ)n- where m+n=100, X is selected from -OH, -C6H5, -C6H5SO3M, and -COOH, Y and Z are selected from -H, -OPO(OH)2, -OCOR, and -COOM, R is C1-4 alkyl group, and M is H or alkali metals. The sodium percarbonate product has excellent storage characteristic and stability and high solubility in water can be used in decolorizing agent.

L6 ANSWER 15 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:498428 CAPLUS

DN 131:146055

TI Scale-removing cleaning compositions useful for bathrooms

IN Miyano, Shoichi; Onoe, Hiroki; Suzuki, Ayako

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 11217600	A2	19990810	JP 1998-20831	19980202 <
PRA	T JP 1998-20831		19980202		

AB Title compns. comprise surfactants and solvents and are characterized in containing (A) aminocarboxylic acids at least partially salts with potassium, ammonium, and/or organic amines and (B) carboxylic acids other than A, where 1 < A/B ≤ 10 and A + B = 0.1-20%. Thus, a composition comprising C12 alkyl benzenesulfonic acid 2.0, EDTA 3.0, citric acid 2.7, dipropylene glycol monopropyl ether 10.0, ethanol 1.0 parts, water, and KOH gave good scale removing property for polypropylene wash basin.

L6 ANSWER 16 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:202124 CAPLUS

DN 130:197862

TI Preparation of antibacterial health fabric and its application

IN Zhu, Xiaokang; Zheng, Ke; Ren, Gaochao; Han, Ming

PA Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 10 pp. CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
•					
ΡI	CN 1121126	A	19960424	CN 1995-104287	19950428 <
	CN 1036727	В	19971217		
PRAI	CN 1995-104287		19950428		

AB An antibacterial health fabric contains metal salt 0.05-12, amino carboxylic acid chelating agent or natural organic acid and its sodium salt 0.05-10, and polyoxyethylene nonionic surfactant 0.003-2 wt%. The cation in the metal salt is selected from Na+, Cu2+, Ca2+, Ag+, Zn2+, and Al3+. The anion in the metal salt is selected from S042-, Cl-, NO3-, CO32-, -COO-. The chelating agent is

selected from EDTA, disodium ethylenediaminetetracetate, N, N-bis(2-hydroxyethyl)glycine, and hydroxyethylethylenediaminetriacetic acid; the natural organic is selected from tartaric acid, citric acid, acetic acid, and gluconic acid. The polyoxyethylene nonionic surfactant is selected from polyoxyethylene nonylphenyl ether, polyoxyethylene fatty alc. ether, polyoxypropylene polyoxyethylene ether, fatty acid polyoxyethylene ether, polyoxyethylene aliphatic amine, polyoxypropylenepolyoxyethylene glycerol ether, and fatty alc. - ethylene oxide polycondensate. The fabric includes felt, non-woven fabric and fabrics by spinning resp. or cospinning with natural, animal and chemical fiber. Mixing the above materials according to ratio and spraying the mixture on fabric (or dipping fabric in the mixture) give the desired product.

- L6 ANSWER 17 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- 1998:625960 CAPLUS AN '
- DN 129:218415
- Gas absorption in the presence of particles showing interfacial affinity: ΤI case of fine sulfur precipitates
- Demmink, J. F.; Mehra, A.; Beenackers, A. A. C. M. AU
- CS Department of Chemical Engineering, University of Groningen, Groningen, 9747 AG, Neth.
- Chemical Engineering Science (1998), 53(16), 2885-2902 SO CODEN: CESCAC; ISSN: 0009-2509
- Elsevier Science Ltd. PΒ
- DT Journal
- LA English
- Enhancements in the absorption rate of acetylene into aqueous solns. of iron AB chelates of HEDTA, caused by the presence of fine, freshly precipitated sulfur particles, have been investigated in a stirred cell reactor with flat interface. The acetylene gas is essentially inert towards the iron chelate, whose presence is required solely for in situ precipitation of sulfur from hydrogen sulfide, i.e. for introducing sulfur into the system prior to acetylene absorption. The sulfur particle size distributions were determined using Coulter Counter measurements. The rate data were interpreted by developing, and using, a heterogeneous, unsteady state mass transfer model based on Danckwerts' surface renewal theory and particle-tointerface adhesion. The enhancement factor is shown to depend upon the fraction of the interface "covered" by the solid particles, the average particle size, the distribution coefficient of the solute partitioning between the solid and the liquid phases and the phys. gas-liquid (liquid side) mass transfer coefficient The model predicts the trends in the enhancements correctly, and has been shown to interpret the exptl. data reasonably well. As a reference case, the absorption of acetylene into slurries of fine carbon particles in similar liquid media was also studied. The sulfur and carbon particles indeed behave similarly and the addnl. data on carbon particle systems also points to the qual. validity of the proposed model. Nevertheless, the new model seems to be too simple for predicting quant. agreement.
- THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 17 ALL CITATIONS AVAILABLE IN THE RE FORMAT
- ANSWER 18 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN L6
- 1998:498176 CAPLUS ΑN
- DN 129:204461
- Liquid detergent compositions for bathroom and bathtub TТ
- Wada, Hiroshi; Morikawa, Yasuyuki IN
- Neos Co., Ltd., Japan PΑ
- SO Jpn. Kokai Tokkyo Koho, 4 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

DATE PATENT NO. KIND DATE

APPLICATION NO.

19980804 JP 1997-10452 19970123 <--JP 10204483 A2

PRAI JP 1997-10452 19970123

Title detergent compns. comprise (1) 2-ethylhexyl glucoside, (2) aminocarboxylic acids or their salts (ethylenediamine tetraacetic acid sodium salt), and (3) C2-6 polyhydric organic acids (citric acid) or their salts. The detergents are mild to skin.

ANSWER 19 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN L6

AN 1998:341605 CAPLUS

129:16909 DN

Preparing rigid and flexible polyurethane foams with good heat resistance ΤI

IN Eling, Berend

Imperial Chemical Industries PLC, UK PΑ

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

Patent DT

English LA

FAN.CNT 2

FAN.	PATENT NO.				KIN	ND DATE			APPLICATION NO.					DATE					
ΡI	WO	9821	.254														9971	007	<
		W:	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,	
			DK,	EE,	ES,	FI,	GB,	GE,	GH,	HU,	ID,	IL,	IS,	JP,	KE,	KG,	ΚP,	KR,	
												MG,							
			PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	UA,	UG,	
			UΖ,	VN,	YU,	ZW													
		RW:	GH,	KE,	LS,	MW,	SD,	SZ,	ŪĠ,	ZW,	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	
			GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	
			GN,					TD,											
		2268				AA		1998	0522		CA 1	1997-	2268	178		1:	9971	007 •	<
			445								AU 1	1997-	4944	5		1	9971	007 -	< - -
	ΑU	7310	94			B2		2001	0322										
			.09								EP]	1997-	9121	31		1:	9971	007 •	<
	ΕP		.09																
		R:	AT,				DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	PT,	IE,	
			-	FI,	RO														
		9712				Α						997-							
	NZ	3352	17			A		2000				1997-						007 -	
			.5034			T2		2001				1998-						007 -	< - -
		2343						2003				1997-					9971		
			.941		•			2003				1999-							
	_	9371				T		2003	-			L997-					9971		
			189			T3		2003				L997-					9971		
		4481				В		2001				L997-						015 ·	
		9709				A		1998				L997- L997-							
		6100				A		2000			VS .	1997- 1999-	203/	53		1	0000 33/T	104 ·	<
		9902		10		A		1999 2000			NO -	L999- L999-	2233	4.4		1		507 ·	
	KK	2000	0531	19		A D1		2000				1999- 1999-				1.	9990	50/ ·	
		6421				B1						2000-						225 ·	<i>-</i>
ד א ממ		6211	_			B1		2001 1996			UD 4	2000-	2130	23		2	0000	445	
PRAI			-203 -EP5					1997											
			-623°	-		w A3		1997									•		
	US	エフフィ	- 203	,55				1 J J I	TT04				_		_				

A Sn salt together with a salt of a protic acid having ≥2 acidic H AB atoms and a pKa (in H2O) 2-10 are used in preparing water-blown polyurethane foams. Thus, a polyoxyalkylene-polyurethane foam was prepared using 0.211% sodium polyacrylate and 0.67% Dabco T-9 and the foam had core d. 14.5 kg/m3 before crushing and 17.5 kg/m3 after crushing, and Young's modulus (25°) 233 kPa.

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 4 ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 20 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN L6

1998:71650 CAPLUS AN

- DN 128:182406
- TI Liquid refrigeration compositions with improved corrosion inhibition on metal materials
- IN Murata, Kazuhiko; Ikeda, Takashi
- PA Ipposha Oil Industries Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

- DT Patent
- LA Japanese
- FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 10025470	A2	19980127	JP 1996-202899	19960711 <

PRAI JP 1996-202899 19960711

- AB The title compns. contain (1) f.p.-depressants mainly containing alcs. and/or glycols, (2) corrosion inhibitors, (3) metal ion-sequestering agents having amino N bonding to hydrocarbon groups of carboxylic acids or their salts, and optionally (4) silane coupling agents. The corrosion inhibitors may be phosphates, molybdates, nitrates, tungstates, aromatic or aliphatic carboxylates, triazoles, or thiazoles. The compns. show good corrosion inhibition properties, especially against Al alloys, and are useful for coolants for engines and brines for industrial plants.
- L6 ANSWER 21 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1997:383606 CAPLUS
- DN 127:43669
- TI Electrolytic etching solution for precipitation hardening-type copper alloy article and etching method
- IN Ito, Reiko; Kobayashi, Nobuo
- PA Ebara Udylite K. K., Japan
- SO Jpn. Kokai Tokkyo Koho, 4 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

1 2 214	O11 1		•			
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
					'	
ΡI	JP 09111500	A2	19970428	JP 1995-295985	19951020 <	
	JP 3500239	B2	20040223			
PRAI	JP 1995-295985		19951020		•	

AB The etchant containing an alkali metal carbonate salt and a chelating agent, and having pH and 9-13 enables the electrolytic etching at anode current efficiency 5-50%. The etching method at anode c.d. 1-30 A/dm2 and anode current efficiency 5-50% is claimed. The method inhibits generation of smut on the article surface, and the is suitable for manufacture of elec. apparatus

- L6 ANSWER 22 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1997:375233 CAPLUS
- DN 127:70599
- TI Removal of minerals from human hair and animal keratin fibers by chelating agents
- IN Said, Hayel; Said, Hian
- PA L'Avante Garde, Inc., USA
- SO U.S., 9 pp. CODEN: USXXAM
- DT Patent
- LA English
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US 5635167	A	19970603	US 1994-365594	19941228 <
ו ג סם	T TTC 1001-365504		19941228		

OS MARPAT 127:70599

A process for the removal of exogenous minerals which have become attached AB to human hair or keratin fiber includes the steps of contacting at least one chelating agent to the human hair or keratin fiber, the chelating agent selected from the group consisting of amino acid-type, polyphosphate-type and phosphonate-type agents, maintaining contact with the chelating agent and the human hair or keratin fiber for a period of time sufficient to permit the chelating agent to complex with the exogenous minerals, thereby removing at least a portion of the attached minerals, and rinsing the chelating agent. The process is enhanced with the pH is adjusted to a range of between 4 to 9, preferably 5 to 8. The chelating agent is added at a concentration of 4% by weight to 25% by weight, preferably 5 to 20% by weight In a preferred case, the chelating agent is selected from the group consisting of a salt of EDTA, a salt of hydroxyethylethylenediaminetriacetic acid, a salt of diethylenetriaminepentaacetic acid, a salt of nitrilotriacetic acid and a salt of tripolyphosphate, preferably the sodium salt. The chelating agents used are preferably blends of chelating agents thereby achieve a synergistic effect. Copper-contaminated hair containing 5260 ppm Cu was treated with a solution containing Na4EDTA 2, Na3 hydroxyethylenediaminetriacetic acid 2, disodium ethanoldiglycine 1% to reduce Cu to 500 ppm. Formulations of various hair prepns. for removal of minerals from hair are disclosed.

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ANSWER 23 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
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1996:554489 CAPLUS AN

DN 125:225164

Anionic softener compositions containing cationic bactericides and metal ΤI chelating agents

Takahashi, Juichi; Nagao, Shigeru; Oora, Akira IN

Kao Corp, Japan PA

Jpn. Kokai Tokkyo Koho, 6 pp. SO CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI JP 08158258	A2	19960618	JP 1994-306363	19941209 <	
PRAI JP 1994-306363		19941209			

Title compns. contain cationic bactericides (A), ≥0.5 mol (vs. A) metal-chelating agents, and C \geq 20 α -olefinsulfonate salts and/or salts of sulfosuccinate diesters with C≥16 alkyl, in which, softening effect is not prevented by A so that to give good handle to fabrics. Thus, a cotton fabric was padded with a bath comprising 50 parts a mixture of sorbitan trioleate 6, polyoxyethylene glycerin C8-28 fatty acid ester 4, fatty acid amide-urea copolymer 1.8, C20-30 α olefinsulfonate Na salt 22.5, and water 63%, 20 parts benzalkonium chloride, 3.5 parts 4-Na EDTA, 3 parts 2-Na EDTA, and water 23.5 parts and dried to give a test piece showing good handle and yellowing prevention.

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ANSWER 24 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
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1996:169249 CAPLUS AN

124:320113 DN

Preparation of amino carboxylic acid solution with low salt content from TΙ solution of alkali metal salt of the acid

Grierson, Jeffrey G.; Costain, Cameron T.; Wilson, David A. IN

The Dow Chemical Company, USA PA

U.S., 7 pp. SO CODEN: USXXAM

DTPatent

English LA

FAN.CNT 1

DATE PATENT NO. KIND DATE APPLICATION NO.

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19960213
                                           US 1994-305111
                                                                  19940913 <--
PΙ
    US 5491259
                         Α
                                           CA 1995-2198007
                                                                  19950905 <--
    CA 2198007
                         AΑ
                               19960321
                                           WO 1995-US11093
                                                                  19950905 <--
                         A1
                               19960321
    WO 9608464
        W: AU, BR, CA, MX, NO, NZ, RU
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                                           AU 1995-34630
                                                                  19950905 <--
                               19960329
    AU 9534630
                         A1
                                           EP 1995-931045
                                                                  19950905 <--
                         A1
                               19970702
    EP 781269
        R: DE, FR, GB, NL
                                           BR 1995-8915
                                                                  19950905 <--
    BR 9508915
                         Α
                               19980714
PRAI US 1994-305111
                         Α
                               19940913
                        W
                               19950905
     WO 1995-US11093
    The title preparation involves adjusting the pH of the aqueous solution of the
AΒ
alkali
    metal salt of the amino carboxylic acid (e.g., HEDTA tri-Na salt) to
     1.0-3.0 by adding an inorg. acid such as HCl and contacting the resulting
     solution with ≥1 membrane (e.g., Filmtec NF-40) to sep. an aqueous
    permeate containing the alkali metal ions from an aqueous retentate containing
the
     amino carboxylic acid.
L6 ANSWER 25 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
     1996:117946 CAPLUS
DN
     124:147829
    Low-color polymer solutions and dispersions, films therefrom, and
ΤI
     additives for prevention of discoloration by iron compounds
     Winkle, Mark Robert
IN
     Rohm and Haas Co., USA
PA
SO
     Eur. Pat. Appl., 8 pp.
     CODEN: EPXXDW
DT
     Patent
LA
    English
FAN.CNT 1
                                           APPLICATION NO.
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                                                                  _____
     ______
                               19951227
                                           EP 1995-303942
                                                                  19950608 <--
     EP 688816
                         A1
PΙ
        R: DE, ES, FR, GB, GR, IT
                                                                  19950616 <--
                               19951223
                                           CA 1995-2152022
     CA 2152022
                         AA
                                                                  19950619 <--
                                19960423
                                           BR 1995-2844
     BR 9502844
                         Α
                                19960207
                                           CN 1995-107666
                                                                  19950622 <--
     CN 1116219
                         Α
PRAI US 1994-263581
                               19940622
                         Α
     Compds. containing phosphorus, e.g., phosphoric acid, phosphates,
     diphosphonoalkanes, etc., or aminedi(methylenecarboxylic acid) moieties
     and added to polymer solns., dispersions, emulsions and films containing iron
     compds. to prevent discoloration. The additives are used at a level of
     10-5000 ppm based on the polymer. These low-color polymers are
     particularly useful in coating applications, such as latex paints,
     adhesives, caulks, etc. Thus, discoloration of a polymer emulsion prepared
     by aqueous emulsion polymerization of Bu acrylate 63, Me methacrylate 35, and
acrylic
     acid 2 parts and containing ferrous sulfate heptahydrate (0.280 parts/1000
     parts latex) was prevented by addition of Na pyrophosphate.
     ANSWER 26 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
     1995:758725 CAPLUS
AN
DN
     123:143887
     Method for purification of 4-(phenylazo)pyrazole derivative by
TI
     crystallization
     Takuma, Hirosuke; Matsuzaki, Yoriaki
IN
     Mitsui Toatsu Chemicals, Japan
PA
     Jpn. Kokai Tokkyo Koho, 6 pp.
SO
     CODEN: JKXXAF
DT
     Patent
     Japanese
LA
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FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 07101937 JP 1993-249382	A2	19950418 19931005	JP 1993-249382	19931005 <
			19931003		
os	MARPAT 123:143887				
GI					

AB The title compound [I; R1, R2 = H, halo, NO2, alkyl, alkoxy; R3 = H, OH, alkyl; R4 = H, alkyl; R5 = alkyl, (un)substituted aryl] is purified by crystallization which involves dissolving crude I in a water-soluble organic solvent and

adding water, wherein a chelating agent is used in the crystallization This simple purification method gives I of high purity with very small inorg. ion concentration 2-3 ppm, which is suitable for use in a high-purity photoresist composition Thus, 25 part crude (phenylazo)pyrazole derivative (II) of 95.53% purity containing Na+ 500, K+ 20, and Fe ion 60 ppm was added to 155 part DMF, dissolved by heating to 80°, and was heat-filtered. The filtrated was added to acetone at 50°, followed by successively adding a solution of 0.75 part ethylenediamine-N,N,N',N'-tetraacetic acid disodium salt in 43 part H2O and 700 part distilled H2O and cooling the mixture to 20°. Precipitated crystals were removed by filtration, washed with distilled water, and dried to give 23 part II of 99.57% containing Na+ 0.9, K+ 0.7, and Fe ion 0.7 ppm.

- L6 ANSWER 27 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1995:541484 CAPLUS
- DN 122:298690
- TI Hair dye composition containing acrylic resins, chelating agents, and pigments
- IN Kirita, Kazuhisa
- PA Mitsubishi Pencil KK, Japan
- SO Fr. Demande, 22 pp. CODEN: FRXXBL
- DT Patent
- LA French
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
		-				
ΡI	FR 2709418	A1	19950310	FR 1994-10478	19940831 <	
	FR 2709418	B1	19960412			
	JP 07069849	A2	19950314	JP 1993-217514	19930901 <	
PRAI	JP 1993-217514	Α	19930901			

AB The title hair dye is disclosed. A hair dye composition contained black iron oxide 10, Plas-size L53D (an acrylic resin) 20, EtOH 64.50, Na2EDTA 0.5, and water 5.0%.

- L6 ANSWER 28 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1994:686307 CAPLUS
- DN 121:286307
- TI Method for solubilizing silica
- IN Bardsley, Judy H.; Hann, William M.
- PA Rohm and Haas Co., USA
- SO U.S., 4 pp.

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CODEN: USXXAM
DT
    Patent
LA
    English
FAN.CNT 1
                                          APPLICATION NO.
                                                                 DATE
                        KIND
    PATENT NO.
                               DATE
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                                          US 1993-36594
                                                                 19930324 <--
                               19940830
    US 5342787
                        A
                                                                 19930629 <--
                                          JP 1993-159381
                               19941004
                        A2
    JP 06277695
                                          CA 1994-2116149
                                                                 19940222 <--
    CA 2116149
                        AA
                               19940925
                                                                 19940323 <--
                                          EP 1994-302064
                        A2
                               19940928
    EP 616979
                        A3
                               19951108
    EP 616979
                        B1
                               19971119
    EP 616979
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE
                                        AT 1994-302064
                                                                 19940323 <--
    AT 160445
                         Ε
                               19971215
                                          ES 1994-302064
                                                               19940323 <--
                         Т3
                               19980116
    ES 2109605
PRAI US 1993-36594
                         Α
                               19930324
    A method for solubilizing colloidal silica in aqueous systems containing
silica is
    provided wherein a silica-containing sample is diluted, one or more chelants
are
     added and the pH is above 10.0. The chelants are chosen from among EDTA,
     NTA, ethylenediamine compds., methylenephosphonic acids, and the partial
     and complete alkali metal and ammonium salts thereof.
     ANSWER 29 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
     1994:217013 CAPLUS
AN
DN
     120:217013
     Purification of anthraquinone-2-sulfonic acid sodium
ТT
     Takuma, Hirosuke; Kuroda, Shizuo
TN
PA
     Mitsui Toatsu Chemicals, Japan
SO
     Jpn. Kokai Tokkyo Koho, 4 pp.
     CODEN: JKXXAF
DT
     Patent
     Japanese
LA
FAN.CNT 1
                                                                 DATE
                                          APPLICATION NO.
     PATENT NO.
                        KIND
                               DATE
                                          _____
                                                                 _____
     _____
                         A2
                                          JP 1992-147124
                                                                 19920608 <--
     JP 05339227
                               19931221
PΙ
     JP 3169434
                        B2
                               20010528
PRAI JP 1992-147124
                               19920608
     The title compound (I) is purified by recrystn. of crude I from H2O with
     addition of activated C and chelating agents. An aqueous solution of 50
weight parts I
     of 96.80% purity was treated with activated C at 75° for 1 h,
     filtered, mixed with disodium nitrilotriacetate, and cooled to 20°
     to give 41 weight parts I of 99.95% purity.
     ANSWER 30 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
     1993:605899 CAPLUS
AN
     119:205899
DN
     Cleaning compositions for washing machine tubs
TI
     Gomi, Tadashi; Takahashi, Setsuko
IN
     Yuho Chemicals Inc, Japan
PA
     Jpn. Kokai Tokkyo Koho, 6 pp.
SO
     CODEN: JKXXAF
דת
     Patent
     Japanese
LA
FAN.CNT 1
                                          APPLICATION NO.
                                                                 DATE
     PATENT NO.
                        KIND DATE
                                                                 _____
                                           ______
                                                                 19910910 <--
                               19930323
                                           JP 1991-259796
     JP 05070799
                         A2
PΙ
                        B2
                               19961023
     JP 2545654
                               19910910
```

PRAI JP 1991-259796

- AB The title compns. effective for removing black stains contain chelating agents and optionally surfactants and/or builders. A composition comprised EDTA 4Na 10, Na dodecylbenzenesulfonate 0.5, Na citrate 2, Na tripolyphosphate 4, Na silicate 0.1, protease 0.1, and water 83.3 parts.
- L6 ANSWER 31 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1992:594081 CAPLUS
- DN 117:194081
- TI Nonphosphated detergent compositions with oxygen bleach systems for use in automatic dishwashers
- IN Painter, Jeffrey Donald; Marshall, Janet Layne; St. Laurent, James Charles
 Theophile Roger Burckett
- PA Procter and Gamble Co., USA
- SO PCT Int. Appl., 30 pp.
- CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 2

FAN.					•														
	PAT	ENT 1	NO.			KINI)	DATE		j.	APPL:	ICAT:	ION 1	1O.		D	ATE		
							_					- 						-	
PI	WO	9209	680			A1		1992	0611	1	NO 1	991-1	US828	31		19	9911:	L08	<
		W:						CA,									JP,	KΡ,	
			KR,	LK,	LU,	MC,	MG,	MN,	MW,	NL,	NO,	PL,	RO,	SD,	SE,	SU-			
		RW:	AT,	ΒE,	BF,	ВJ,	CF,	CG,	CH,	CI,	CM,	DE,	DK,	ES,	FR,	GΑ,	GB,	GN,	
								NL,											
	CA	2096	255			AΑ		1992	0515	(CA 1	991-	20962	255		1	9911:	108	<
	CA	2096	255			С		1998	0120										
	ΑU	9212	746	•		A1		1992	0625		AU 1	992-	1274	5		1:	9911:	108	<
	ΕP	5574	66			A1		1993	0901		EP 1	992-	9052	12		1:	9911:	108	<
	ΕP	5574	66			В1		1995	0412										
		R:	AT,	ΒE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE			
	HU	6439	1					1993											
	ΑT	1211	29			E		1995											
	ES	2071	494			Т3		1995	0616		ES 1	992-	9052	12		1	9911:	108	<
	NO	9301	721			Α		1993	0714	:	NO 1	993-	1721			1:	9930!	512	<
PRAI	US	1990	-613	190		Α		1990	1114					•					
	WO	1991	-US8	281		Α		1991	1108	•									

- The title compns. in granular form comprise a conventional P-free builder system containing an organic builder salt such as citrate and a dispersant such as a polyacrylate and a peroxygen bleach system containing a chelant such as ethylenediaminedisuccinate and a bleach such as perborate optionally with enzymes and/or dry-mixed hydrous silicates. Stable free-flowing granules are prepared by a premix step in which the chelant and dispersant are mixed, a drying step, and ≥1 admixing step in which the bleach is added.
- L6 ANSWER 32 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1991:609711 CAPLUS
- DN 115:209711
- TI Adhesive for surface mounting devices on printed circuit boards
- IN Fujii, Ryuichi; Nagase, Rihei
- PA Somar Corp., Japan
- SO U.S., 4 pp. Cont.-in-part of U.S. Ser. No. 138,421, abandoned. CODEN: USXXAM
- DT Patent
- LA English
- FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5001168	A	19910319	US 1989-376081	19890706 <
JP 63168478	A2	19880712	JP 1986-314021	19861227 <
JP 07042441	B4	19950510		•
CA 2037026	AA	19920822	CA 1991-2037026	19910221 <
PRAI JP 1986-314021	A	19861227		
US 1987-138421	B2	19871228		

Storage-stable adhesives for the title use comprise an unsatd. polyester, a reactive diluent, a polymerization initiator, a chelating agent (an amino polycarboxylic acid having ≥1 HOCH2CH2 bound to N or its alkali metal salt), and curing accelerator (cupferron or its metallic salt). Thus, a composition containing Upica 8554 (unsatd. polyester of mol. weight 2500) 100, ULB 20GA (diqlycidyl ester diacrylate of a C16-20 dibasic unsatd. fatty acid) 80, 2-hydroxyethyl methacrylate 60, phenoxyethyl methacrylate 60, 1-hydroxycyclohexyl Ph ketone 6, 70% cumene hydroperoxide in cumene 5, (PhCH2) Et3NCl 1, cupferron 0.2, tri-Na N-hydroxyethylethylenediamine-N,N',N'-triacetate (I) 0.2, and talc (3 μm) 200 weight parts exhibited storage stability ≥30 days, gel time 5 min, and adhesive strength 5.5 kg/soldered-on-transistor on a printed circuit board vs. 15, 5.25, and 3.5, resp., for a similar adhesive containing tetra-Na EDTA instead of I. ANSWER 33 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN L6 1990:617805 CAPLUS AN DN 113:217805 Bar shampoo and skin soap ΤI IN Tibbetts, Hubert M.; Gupta, Mukat PA USA SO U.S., 5 pp. CODEN: USXXAM DTPatent English LA FAN.CNT 1 KIND DATE APPLICATION NO. DATE ----**--**----------19900424 US 1988-252167 19880930 <--PΙ US 4919838 PRAI US 1988-252167 19880930 A bar composition, which is useful both as a shampoo for hair or scalp and as a cleansing soap for the skin or body, is developed which preferably contains hair and skin conditioners. The bar product will remove surface grease, dirt, skin debris, and natural skin secretions from the hair shaft or scalp without removing excessive amts. of oil and without leaving a soap residue on the hair or scalp and yet functions effectively as a skin or body cleaning soap with sufficient lathering and cleaning action for both body and hair. ANSWER 34 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN L6 1989:586692 CAPLUS ΑN DN 111:186692 Analysis of chelating agent by electrophoresis ΤI IN Hine, Takashi; Yagi, Takao PΑ Shimadzu Corp., Japan Jpn. Kokai Tokkyo Koho, 4 pp. SO CODEN: JKXXAF DTPatent Japanese LA FAN.CNT 1 KIND APPLICATION NO. DATE PATENT NO. DATE PI JP 01080849 A2 19890327 JP 1987-239266 19870922 <-PRAI JP 1987-239266 19870922 A sample containing ≥1 of nitrilotriacetic acid, hydroxyethylenetetraacetic acid, 1,4-carboxybutanephosphonic acid, dihydroxybenzenedisulfonic acid, EDTA.di sodium salt, hydroxyethyliminodiacetic acid, nitrilotriethylenemonophosphonic acid, cyclohexanediaminetetraacetic acid, and ethanehydroxydiphosphonic acid is analyzed by electrophoresis with a leading solution (pH 3.0-3.6) containing HCl 0.01 mol and β -alanine, and with a terminal solution from sodium caproate 0.01 mol. A sample containing triethylenetetraaminehexaacetic acid, diethylenetriaminepentaacetic acid, 1,3-diaminopropanetetraacetic acid and 1,3-diaminopropane-2-oltetraacetic acid is analyzed by electrophoresis

with a leading solution (pH 3-3.6) containing HCl 0.01 mol, β -alanine and Ca ion 0.5-2.0 mmol, and with a terminal solution from sodium caproate 0.01 mol.

- L6 ANSWER 35 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1989:536294 CAPLUS
- DN 111:136294
- TI Manufacture of high-yield pulp using multistage pretreatment with stabilizers and peroxide prior to mechanical refining, and the resulting pulp
- IN Gentile, Victor Michael, Jr.; Wilder, Harry Douglas
- PA Scott Paper Co., USA
- SO PCT Int. Appl., 44 pp.
- CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 1

I'AM'	CN1 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	WO 8701746	A1	19870326	WO 1986-US1659	19860813 <
	W: AU, BR				
	RW: BE, DE, FR,	GB, IT	, SE	•	
	AU 8662253	A1	19870407	AU 1986-62253	19860813 <
	EP 239583	A1	19871007	EP 1986-905113	19860813 <
	EP 239583	B1	19910102		
	EP 239583	В2	19940112		
	R: BE, DE, FR,	GB, IT	, SE		
•	BR 8606875	A	19871103	BR 1986-6875	19860813 <
	CA 1274657	A1	19901002	CA 1986-518592	19860918 <
	ES 2002755	A6	19881001	ES 1986-2010	19860919 <
	US 4849053	A	19890718	US 1988-283682	19881213 <
	US 5002635	Α	19910326	US 1989-367907	19890619 <
	AU 9066582	A1	19910131	AU 1990-66582	19901114 <
	AU 9339844	A1	19930819	AU 1993-39844	19930526 <
	AU 663781	B2	19951019		
DRAT	US 1985-778457	A	19850920		
11011	WO 1986-US1659	A	19860813		
	US 1987-122081	A1	19871118		
	US 1988-283682	A1	19881213		
	US 1300-283682	ΑI	T200T7T2		

AB High-yield pulp is manufactured by impregnating wood chips (usually pretreated with steam and/or soaked in H2O) with a first impregnating solution containing stabilizing chems. (e.g., silicate or Mg ions and, optionally, a chelating agent) for peroxide under such conditions that the stabilizing chems. remain soluble in the first impregnating solution, then impregnating the chips with a second impregnating solution containing addnl. stabilizing chems., e.g., silicate or Mg ions, and, optionally, a chelating agent, under such conditions that the chems. are soluble in the second impregnating solution but precipitate and/or form a floc for stabilizing peroxide when mixed with the first

impregnating solution within the chips, and then impregnating the chips with a third solution containing alkaline peroxide, with or without stabilizers and/or

chelating agents. The alkaline peroxide-impregnated chips are then refined in ≥1 stages under atmospheric or superatm. pressure. The nonsulfonated high-yield pulp exhibits superior brightness and strength and low fines content. Thus, pine chips were first impregnated with an aqueous solution containing

MgSO4, Na diethylenetriaminepentaacetate (I; Versenex 80) and HCl at pH 9.0. Then the chips were impregnated with an aq solution containing Na silicate

and I at pH 10.7 so as to form in situ a stabilizing floc. The chips were then impregnated with a third aqueous solution containing MgSO4, I, Na

NaOH, and H2O2 at pH 11.7. These chips were refined under atmospheric pressure,

and the pulp was dewatered, diluted to 3% consistency, and adjusted to pH 5.5-6.0 showing Elrepho brightness 75%, compared with 60% for pulp manufactured using a single impregnation step containing all of the chems. used in the 3-step impregnation, except that the amount of I was reduced so as to prevent its interaction with H2O2.

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L6 ANSWER 36 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
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AN 1989:499881 CAPLUS

DN 111:99881

TI Manufacture of high-purity hydrogen peroxide

IN Watanabe, Satoru; Ohura, Osami

PA Tokai Electro-Chemical Co., Ltd., Japan

SO Ger. Offen., 5 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

FAN.	CNT I				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	DE 3826720	A1	19890622	DE 1988-3826720	19880805 <
	JP 01153509	A2	19890615	JP 1987-311838	19871211 <
	JP 05013081	B4	19930219		
	US 5055286	A	19911008	US 1988-207176	19880615 <
	FR 2624500	A1	19890616	FR 1988-14513	19881107 <
	FR 2624500	B1	19910726	•	
PRAI	JP 1987-311838	A	19871211		-

The title process comprises contacting H2O2 with an anion exchange resin containing an adsorbed chelating agent. This method is useful for removing metal ions, and the high-purity H2O2 is especially useful as a cleaning agent for Si wafers. Thus, 50 mL CI-type Amberlite IRA-900 (divinylbenzene-styrene copolymer with quaternary ammonium anions) anion exchange resin was treated with 250 mL 0.3N solution of Na4EDTA, washed with 500 mL water in 2 h, and then contacted with 35.2 H2O2 containing Al 151, Fe 6, Ni 3, and Cr 5 ppb, and Cl 0.05, PO4 0.5 and organic C 17.2 ppm, at 1000 mL/h for 10 h, to give 35.2% H2O2 containing Al <1, Fe <1, Ni <1, and Cr <1 ppb, and Cl <0.05, PO4 0.1, and organic C 6.5 ppm.

L6 ANSWER 37 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1989:59961 CAPLUS

DN 110:59961

TI Bleach detergent compositions

IN Isobe, Kenji; Nakagawa, Ryuichi

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
ΡI	JP 63101497	A2	19880506	JP 1986-246787	19861017 <	
PRAI	JP 1986-246787		19861017			
os	MARPAT 110:59961					

AB The color-safe title compns. contain (A) 100 parts peroxide producing H2O2 in water and activators comprising (B) 0.05-5 part inorg. Co compound and activators C (>0.2 part) and E (>1 part) or comprising (D) 0.2-10 parts organic Co salt and activators E (>1 part): activator C comprises ≥1 of C1-24 fatty acids and their alkali metal salts, C8-22 saturated fatty acid lower alkyl ester sulfonic acid alkali or alkaline earth metal salts, C10-22 α-sulfofatty acid alkali or alkaline earth metal salts of sulfonic acid of C18-22 unsatd. fatty acid salts, dicarboxylic acid derivs. YO2C(CH2)nCO2Y (n = 1-10; Y = H, alkali metal), citric, malic, phenolic, tartaric, gluconic, maleic, fumaric, and diglycolic acids and their alkali metal salts, phenol or benzoic acid

derivs. XC6H4-nRn (I, R = H, CO2H, C1-10 alkoxy, alkyl; n ≥ 1; X = OH, CO2H) or alkali metal salt. When n > 1, R's may be the same or different, and polycarboxylic acid polymer alkali metal salts; activator D comprises ≥1 of C1-24 fatty acid Co salts, C8-22 saturated fatty acid lower alkyl ester sulfonic acid Co salts, C18-22 unsatd. fatty acid lower alkyl ester sulfonic acid Co salts, C10-22 α-sulfofatty acid Co salts, Co salts of sulfonic acid of C18-22 unsatd. fatty acid Co salts, Co salts of the dicarboxylic acids HO2C(CH2) nCO2H (n = 1-10), Co salts of citric, malic, phthalic, tartaric, gluconic, maleic, fumaric, and diglycolic acids, Co salts of I (R = H, CO2H, C1-10 alkoxy, alkyl; X = OH, CO2H; when n ≥2, R's may be the same or different), and polycarboxylic acid polymer Co salts; activator E comprises ≥1 of nitrilotriacetic acid, EDTA, N-hydroxyethylethylenediaminetriacetic acid, diethylenetriaminepentaacetic acid, and the alkali metal salts. A typical enzyme-containing anionic detergent composition contained 6% bleach comprising

Na

percarbonate 59.7, CoSO4.7H2O 0.3, hardened tallow acid Me ester sulfonic acid Na salt 15, Na citrate 5, and Na nitrilotriacetate 20 parts.

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L6 ANSWER 38 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
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AN 1988:551993 CAPLUS

DN 109:151993

TI Bleach detergent compositions

IN Isobe, Kenji; Nakagawa, Ryuichi

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
ΡI	JP 63101498	A2	19880506	JP 1986-246788	19861017 <		
DRAT	TP 1986-246788		19861017				

AB The color-safe title compns. with high bleaching power contain peroxide generating H2O2 in aqueous solution 0.5-30, N-heterocyclic compound containing halogen-substituted secondary amino group 0.1-30, and inorg. Co salt 0.001-2%. A typical composition comprised 1-chloro-4-hydroxy-2,2,6,6-tetramethylpiperidine 4, CoCl2.6H2O 0.06, Na perborate.H2O 6, and anionic detergent granules 89.94%.

L6 ANSWER 39 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1987:480775 CAPLUS

DN 107:80775

TI Scale removal treatment

IN Kalfayan, Leonard J.; Watkins, David R.; Hewgill, Gregory S.

PA Union Oil Co., USA

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

PA	ATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EF	224346	A2	19870603	EP 1986-308570	19861103. <
EF	224346	A 3	19890118		
EF	224346	B1	19920429		•
	R: GB, NL				
NC	8604641	A	19870522	NO 1986-4641	19861120 <
NC	172450	В	19930413		
NC	172450	C	19930721		
US	4992182	A	19910212	US 1989-311378	19890215 <
US	5 5051197	Α	19910924	US 1990-595104	19901010 <
PRAI US	1985-800532	Α	19851121		

US 1987-77305 B1 19870724 US 1989-311378 A1 19890215

AB A method for removing scale from well equipment and/or boreholes in an underground formation comprises injecting into the well an aqueous solution containing an aminopolycarboxylic acid and a water-soluble organosilicon compound

The fine particles within the formation are stabilized to prevent their subsequent movement, resulting in increased fluid flow through the formation and well. An oil-saturated sandstone core was flooded with 2% aqueous

NaCl and then evaluated for scale removal and fixing of fines with an aqueous solution containing H2N(CH2)Si(OMe)3 3, Na2EDTA 9, and NaCl 0.5 volume%, resulting

in a significant increase in the permeability after water damage and a protection against further water damage.

- L6 ANSWER 40 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1987:6735 CAPLUS
- DN 106:6735
- TI Detergency builder system
- IN Collins, Jerome Howard; Mackey, Larry Neil; Spadini, Gianfranco Luigi
- PA Procter and Gamble Co., USA
- SO Eur. Pat. Appl., 44 pp.
- CODEN: EPXXDW
- DT Patent
- LA English

FAN.CNT 4

L WIN .	CIA T	4										
	PAT	TENT NO.		KIND) .	DATE		API	PLICA	TION NO.	DATE	
PΙ	ΕP	192441		A2		19860	827	EP	1986	-301065	19860217	<
	ΕP	192441		A 3		19871	209					
		R: AT, BE, (CH,	DE,	FR	, GB,	IT,	LI, LU	J, NL			
	US	4687592		Α		19870	818	US	1985	-754561	19850711	<
	CA	1253769		A1		19890	509	CA	1986	-501968	19860217	<
	JP	61246298		A2		19861	101	JP	1986	-34929	19860219	<
PRAI	US	1985-702521		A		19850	219					
	US	1985-754561		Α		19850	711					

Detergent builder compns. which are especially useful in P-free detergent or laundry additive products comprise 70-99% [XO2CCH2CH(CO2X)]20 (X = H or salt-forming cation) and 1-30% dispersing or antiredeposition agent selected from polycarboxylates and ethoxylated amines. Thus, a detergent builder system comprised 94 g oxydisuccinic acid Na salt and 6 g ethoxylated tetraethylenepentamine (degree of ethoxylation 15.02).

- L6 ANSWER 41 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1986:148316 CAPLUS
- DN 104:148316
- TI Recovery of carboxylic acids containing N-CH2-COOH structural units from alkali metal or alkaline earth salts
- IN Habermann, Wolfgang; Hock, Karl Ludwig; Hammes, Peter; Schneider, Rolf; Thoma, Peter
- PA BASF A.-G., Fed. Rep. Ger.
- SO Ger. Offen., 8 pp.
 - CODEN: GWXXBX
- DT Patent
- LA German
- FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI DE 3405522	A1	19850829	DE 1984-3405522	19840216 <	
DDAT DE 1984-3405522		19840216			

AB Carboxylic acids, containing the structural unit NCH2CO2H, were produced by electrolysis of aqueous solns. of their alkali or alkaline earth salts in the middle zone of an electrolysis cell, which is divided by semipermeable

partitions into a cathode zone, an anode zone and a middle zone, whereby one uses an aqueous acid as anolyte and an aqueous solution of an electrolyte

as

catholyte. In an example, the Na salt of [(HO2CCH2)2NCH2CH2]2NCH2CO2H was converted into the free acid in 96.5% yield of 99.8% purity. There was an average current yield of 88% for the Na transfer. The electrolysis cell and its membranes, electrodes, and electrolytes were described.

L6 ANSWER 42 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1985:509715 CAPLUS

DN 103:109715

TI Removal of hydrogen sulfide from steam

IN Jernigan, Robert Thorne

PA Dow Chemical Co., USA

SO Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

T. TATA	CIVI				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		-			
ΡI	EP 141872	A1	19850522	EP 1983-111376	19831114 <
	EP 141872	B1	19881130		
	R: FR, IT			•	
	JP 60106519	A2	19850612	JP 1983-213433	19831115 <
	JP 04019885	B4	19920331		
	JP 60114327	A2	19850620	JP 1983-220892	19831125 <
PRAI	EP 1983-111376		19831114		

AB Residual H2S-containing steam from a geothermal steam power plant is purified by condensing with an aqueous solution in a condensing zone at temperature sufficient

low to convert the steam into an aqueous solution containing dissolved H2S and its

ions, converting the aqueous H2S-containing solution to an aqueous solution containing free S

and Fe2+-chelate by contacting with an aqueous solution of Fe3+-chelate, and converting the Fe2+-chelate solution in an air cooling zone into an aqueous solution

containing Fe3+-chelate which is recycled back to the condensing zone. Thus, a fully chelated Fe solution, versenol iron, containing 4% Fe was prepared from Na3HEDTA [139-89-9] and Fe(NO3)3 and added to the circulating water system. Immediately after the chelate addition, the emission of H2S from the cooling tower became immeasurably small and could not be detected in the stream throughout the remainder of the trial.

L6 ANSWER 43 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1976:562763 CAPLUS

DN 85:162763

TI Rare earth metal carbonates

IN Itama, Shouzou; Takayama, Akira

PA Mitsubishi Chemical Industries Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

דאו ראיד ז

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
					
PI JP 51035698	A2	19760326	JP 1974-108593	19740920 <	
JP 57020247	B4	19820427			
PRAI JP 1974-108593	Α	19740920			

AB N-Hydroxyethylethylenediaminetriacetic acid (I) is added in preparation of rare earth carbonate and controls the copptn. of Fe in a solution with the carbonate. Thus, a mixed rare earth carbonate was prepared from 500 ml of

mixed rare earth carbonate solution containing R2O3 50 g (La2O3 95%), Fe 0.007

g, and 1 ml of 35% tri-sodium salt of HEDTA and a (NH4)2CO3-NH4OH solution was added. The iron in the solution was copptd. by 46%

as compared to 100%. With addition of I 46% of the Fe was copptd. with the La2(CO3)2 and with no addition of I all the Fe was copptd.

L6 ANSWER 44 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1974:574239 CAPLUS

DN 81:174239

TI Removal of a silicon-containing scale

IN Ueki, Hiroshi

PA Kurita Water Industries, Ltd.

SO Jpn. Tokkyo Koho, 3 pp.

CODEN: JAXXAD

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
		-			-	
ΡI	JP 49014468	B4	19740408	JP 1970-25488	19700326 <	
PRAI	JP 1970-25488		19700326			

AB Si-containing scale deposited on the surfaces of heating apparatus, devices, etc,

is removed by dissolving the scale with pH >9 aqueous solution of an alkali salt

of aminopolycarboxylic acid, β -glycerophosphoric acid, or glyceric acid. The carboxylic acids may be EDTA, nitrilotriacetic acid, hydroxyethylethylenediaminetriacetic acid, and others. Packing elements used in a washing tower for removal of Ca from a crude solution of NaOH were immersed in EDTA at pH 11 at 98°. The scale deposited was dissolved and removed.

L6 ANSWER 45 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1974:408368 CAPLUS

DN 81:8368

TI Treatment of color photographic materials

IN Iwano, Haruhiko; Shimamura, Isao

PA Fuji Photo Film Co., Ltd.

SO Ger. Offen., 56 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	DE 2322615	A1	19731122	DE 1973-2322615	19730504 <
r I	JP 49005630	A2	19740118	JP 1972-44457	19720504 <
	JP 56053749	B4	19811221	•	
	GB 1393335	Α	19750507	GB 1973-21287	19730504 <
PRAI	JP 1972-44457	Α	19720504		

AB A Ag halide color photog. emulsion containing a nondiffusible yellow coupler such as α -pivaloyl- α -[4-(4-benzyloxyphenylsulfonyl)phenoxy]-2-chloro-5-(2,4-di-tert-amylphenoxy)butyramidoacetanilide (I) is bleached in the presence of a Co(III) or Fe(III) aminopolycarboxylic acid complex salt to give an improved D maximum Thus, an Ag(Br,I) color emulsion containing

cyan,

magenta and yellow (I) couplers in sep. layers was exposed, developed, and bleached in a solution consisting of Fe(III)-EDTA Na salt 30, KBr 50, EDTA di-Na salt 5, HBO3 3, borax 1.5 and H2O to 1 l. to give a blue D maximum of 1.6 vs. 1.25 for a control using a conventional bleaching solution

```
1974:139486 CAPLUS
AN
    80:139486
DN
    Color photographic silver bleach baths
ΤI
    Iwano, Haruhiko; Shimamura, Isao
IN
    Fuji Photo Film Co., Ltd.
PA
    Ger. Offen., 35 pp.
SO
    CODEN: GWXXBX
DT
    Patent
    German
LA
FAN.CNT 1
    PATENT NO.
                       KIND
                              DATE
    -----
                        A1
                              19731115
PΙ
    DE 2321400
                       B2
                              19791108
    DE 2321400
    JP 49005335
                       A2
                              19740118
    JP 57007426
                       B4
                              19820210
    GB 1392163
                       Α
                              19750430
```

PRAI JP 1972-43006 A 19720428

AB Baths to assure complete oxidation of leuco dyes in the emulsion, which are readily regenerated, and involve low water pollution only, suitable particularly for AgBr emulsions with 1-10% AgI and high Ag halide content (>40 mg/100 ml), contain per 1. 70-150 g of an Fe3+ aminopolycarboxylate complex (EDTA, nitrilotriacetate, N-hydroxyethylethylenediamine triacetate), 3-80 g of a halide as rehalogenating agent, 0.1-4 moles of an NH4 salt or alkanolamine to make possible the high concentration of Fe chelate, and have a pH of 4.8-5.8 (<6.8). Thus, a color-developed paper was bleached in 2 min, after an S2O32-containing stop bath, in a solution of pH 5 containing per 1. Na Fe3+ EDTA 100 g, KBr 50, NH4Br 50, H3BO3 5, and aqueous NH4OH

APPLICATION NO.

DE 1973-2321400

JP 1972-43006

GB 1973-20272

DATE

19730427 <--

19720428 <--

19730427 <--

5 g. After washing, it was fixed, washed again, and stabilized.

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L6 ANSWER 47 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
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AN 1973:418119 CAPLUS

DN 79:18119

TI Sodium salts of ethylenediaminepolyacetic acids

IN Hertel, Otto; Schwarz, Hans Georg; Hartert, Erwin

PA Badische Anilin- & Soda-Fabrik AG

SO Ger. Offen., 9 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 2

PAN.	CNI Z	77.TD	D3.000	A DDI TOMMIONI NO	DAME
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	DE 2150994	A1	19730419	DE 1971-2150994	19711013 <
	DE 2150994	C3	19800604	•	
	DE 2150994	B2	19790927		•
	CH 572461	Α	19760213	CH 1971-16803	19711118 <
	BE 776348	A1	19720607	BE 1971-111369	19711207 <
	IT 945478	Α	19730510	IT 1971-54789	19711216 <
	CA 956324	A1	19741015	CA 1971-130341	19711216 <
	NL 7117383	Α	19720620	NL 1971-17383	19711217 <
	AT 316498	В	19740710	AT 1971-10861	19711217 <
	GB 1363099	A	19740814	GB 1971-58652	19711217 <
PRAI	DE 1970-2062435	Α	19701218		
	DE 1971-2150994	Α	19711013	•	
		\		f=	0770 COOTT1

AB Na salts of (HO2CCH2)2NCH2CH2NRCH2CO2H [R = CH2CH2OH (I) or CH2CO2H] were prepared by reaction of H2NCH2CH2NHR (II) with NaCN and aqueous HCHO, the reaction mixture concentrated, the precipitated title salts separated, and the filtrate

recycled. Thus, 50 parts 41 % I was concentrated to half its original volume to

precipitate 11.3 parts 88.3 I (on drying I of 98.9% purity was obtained); the mother liquor (25 parts 23.5% I) was recycled to the reaction vessel and

34.1% NaCN 11.05, 30% HCHO 7.63, and 99% II (R = CH2CH2OH) 2.55 parts added to give 32.1 parts 42.7% I solution By this process, a I yield of 93.7% was reached vs. 84% for a run without addition of mother liquor.

L6 ANSWER 48 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1973:57780 CAPLUS

DN 78:57780

TI Sodium aminocarboxylates

IN Kroener, Michael; Daut, Helmut; Hertel, Otto

PA Badische Anilin- & Soda-Fabrik AG

SO Ger. Offen., 11 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
			-		
ΡI	DE 2124329	Α	19721130	DE 1971-2124329	19710517 <
	DE 2124329	B2	19761014		
	DE 2124329	C3	19770518		
PRAI	DE 1971-2124329		19710517		
				•	

AB X2NCH2CH2NX2 (I,X = CH2CO2Na), X3N, X2NCH2CH2NXCH2CH2NX2, and HOCH2CH2NXCH2CH2NX2 of color number 70-150 APHA, useful as complexing agents, were manufactured by reaction of NaCN and HCHO with NH3 or the corresponding amine, with removal of NH3 formed by passing air through the reaction mixture at reduced pressure. Thus, 17,700 kg 30% NaCN and 8150 kg 40% HCHO were simultaneously added within 24 hr to 1600 kg H2NCH2CH2NH2 in 4000 kg H2O at 85°/350 mm with passing 20 m3 air/hr through the mixture to give 21,200 kg CN-free solution of color number <100 APHA containing I 44.4, X2NCH2CH2NHX 0.5, X3N 1.1, residual complexing agents 0.8, other impurities 1.7, and H2O 51.5%. Evaporation of this solution gave 91-2% total complexing agents containing 90% I and H2O uptake 53% after 48 hr, as compared with 87-8% total complexing agents containing 73-4% I and H2O uptake 94% without reduced pressure.

L6 ANSWER 49 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1972:514563 CAPLUS

DN 77:114563

TI Organophosphorus compounds as complex forming components

IN Carlson, Ronald H.

PA Hooker Chemical Corp.

SO Ger. Offen., 25 pp. Division of Ger. Offen. 1,806,886 (See Brit. 1,201,405, CA 71;60710g).

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

New mixts. of compds. suitable for complex formation with Cu+2 and Fe+3 ions which are superior in this respect to known compds. and especially effective for stabilization of aqueous H2O2 contain a tris(hydroxalkyl)phosphine, oxide; or sulfide, a tetrakis(hydroxyalkyl)phosphonium halide, hydroxide, or organic salt such as an organophosphorus compound together with an aminocarboxylic acid, such as HN (RCHCO2M)2, N(RCHCO2M)3, or H2NRCHCO2M, or a condensed inorg. phosphate, such as Na, K, or NH4 tripolyphosphate, e.g. complexing agents consist of (HOCH2)3PO and P(CH2NHCH2CO2Na)3 or P[CH2N(CH2CO2Na)2]3.

L6 ANSWER 50 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1969:4968 CAPLUS

DN 70:4968

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Acrylonitrile-butadiene-styrene copolymers
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PΑ Geigy, J. R., A.-G.

so Fr., 14 pp. CODEN: FRXXAK

DТ Patent French LA

EANT CHTT 1

PAIN.	PATENT NO.		DATE	APPLICATION NO.	DATE	
PΙ	FR 1506916		19671222	FR 1966-89329	19661229 <	
	GB 1145279			GB		
	US 3527730		19700908	US	19661227 <	
	ZA 6703588		19670000	ZA	<	
PRAI	GB		19651230			
	GB		19660804			

A small amount of an alkali metal or alkaline earth metal salt, optionally with AB an organic phosphite, is added as a stabilizer to acrylonitrile-butadienestyrene terpolymers to give improved flow properties. Thus, 100 parts of Cycolac T, with a traction resistance of 443 kg./cm.2 at 23°, a deformation of 5 mm./min., and a d. of 1.04 was milled with 1 part K borate at 140-65° and molded into 1.25-mm. thick sheet at 180°. A sample sheet and 1 containing no additive were then pressed for 30 min. at 250°. The flow and decoloration was greatest in the sample without additive. A number of expts. were also carried out using Ab-strene 334, and 30:70 acrylonitrile-butadiene and 25:75 styrene-butadiene copolymers. Other additives used included Na borate, Na4P2O7, K4P2O7, pentasodium diethylenetriaminepentaacetate, diethylenetriaminepentaacetic acid, Ph3P, NaBO2, Na2HPO4, NaH2PO4, Na3PO4.12H2O, P(O)(OPh)3, Na phthalate, K phthalate, Na sebacate, Na2SiO3, Na silicate, NaOPh, di-Na iminodiacetate, Na citrate, Na maleate, the oxidation product of bisphenol A and Na, Na glycolate, NaO2CCH2Cl, Na salicylate, and C9H19C6H4O)3P.

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ANSWER 51 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
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1969:4957 CAPLUS AN

70:4957 DN

Scum-free laminating resins by admixing a sodium salt ΤI of an aminopolycarboxylic acid with an aminoplast

Anas, Thomas; Larkin, James D.; Watson, John J. IN

PA Monsanto Co.

SO U.S., 3 pp. CODEN: USXXAM

DTPatent

English LA

FAN.CNT 1

Na

111111111111111111111111111111111111111							
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
PI US 3406138	Α	19681015	US 1963-332278	19631220 <			
PRAI US 1963-332278	Α	19631220					

Na salts of aminopolycarboxylic acid chelating agents and their mixts. with defoamers are added to aminoplast resins to prevent the formation of scum on the surfaces of resin treating baths used for paper for thermoset decorative laminates. Thus, a resin (I) was formed by treating 2.5 moles HCHO with 1 mole melamine under alkaline conditions, and was then spray-dried to form a powder. A solution was prepared by dissolving 50 parts I in 50 parts of a mixture of 4% EtOH and 96% water. This solution formed a scum when poured into a surface pan. The addition of 0.05 weight % tri-Na Nhydroxyethyl)ethylenediaminetriacetate to the solvent before the dissoln. of the I gave a solution which formed no scum, even after standing 3 days at room temperature A silicone defoaming agent can also be added along with the

salt. The scum which forms on the resin solution surface can clog treating equipment and cause spots on the final treated product. The resin solution can also be used in the preparation of dinnerware and in bonding fibers to form structures such as oil, water, and air filters.

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ANSWER 52 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
AN
     1966:509164 CAPLUS
DN
     65:109164
OREF 65:20376d-e
    Liquid detergents
IN
    Grob, Erwin
PA
    C. P. Baker & Co.
SO
     2 pp.
DT
    Patent
LA
    Unavailable
FAN.CNT 1
                                         APPLICATION NO.
                                                                 DATE
     PATENT NO.
                       KIND DATE
                                          ______
                                                                 -------
     ______
                       ----
                                          US 1962-234240
                                                                19621030 <--
PΙ
                               19660809
     A liquid detergent is prepared from a formulation containing an alkali metal
     salt of an amino carboxylic acid or a mixture of 2 salts of such acids
     (4-15%), a nonionic surfactant (5-15%), a phosphate ester modified by the
     addition of alkylene oxides (1-10%), and a fatty acid-alkanolamine condensate
     (2-8%). Thus, a liquid detergent was prepared by dispersing, in the
     required amount of water to make 100 parts, p-nonylphenoxypolyethoxyethanol
     (14 ethoxy units) 12%, lauric acid-diethanolamine condensate 5%,
     p-nonylphenol-ethylene oxide condensate phosphate (10 moles ethylene
     Oxide) 5%, Na toluenesulfonate 5%, tetra-Na EDTA 2%, and tri-Na
     nitrilotriacetate 8% by weight The composition was a clear liquid, stable at
room
     temperature, and exhibited high detergency with moderate to little sudsing.
    ANSWER 53 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
AN
     1966:410671 CAPLUS
DN
     65:10671
OREF 65:1916e-f
    Electrolytic removal of metal coatings
     J. R. Geigy A.-G.
PA
SO
     11 pp.
DT
     Patent
    Unavailable
T.A
FAN.CNT 1
                                           APPLICATION NO.
                                                                DATE
     PATENT NO.
                      KIND
                               DATE
                       ----
                                                                 _____
                                                                 19641112 <--
     BE 655610
                               19650512
PΙ
     GB 1032734
PRAI GB
                               19631112
     Thin metal coatings are removed by electrolysis and grease or scale
     contamination is cleaned off metal surfaces in an alkali cleaner bath
     containing also an amino carboxylic acid and an alkyl amine. A cleaning
solution
     may contain 87 g. NaOH, 100 ml. of 34% aqueous tri-Na
     hydroxyethylethylenediaminetriacetate and 125 ml. triethanolamine/l. of
     water.
     ANSWER 54 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
     1966:404826 CAPLUS
AN
     65:4826
DN
OREF 65:923f-h,924a
     Biodegradable detergents
ΤI
     Procter & Gamble Co.
PA
SO
     28 pp.
    Patent
DT
    Unavailable
LA
FAN.CNT 1
     PATENT NO.
                        KIND
                               DATE
                                           APPLICATION NO.
                                                                 DATE
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PI BE 665954 19651227 BE 19650625 <--

Granular detergents of superior detergency, easy biodegradability, and acceptable foaming power, comprise a mixture of 10-80% synthetic surface-active agents (I), 20-90% builders (II), and 0.5-5% organic foam booster (III). The I is a mixture of 40-80% Na tallow alkyl sulfate with 20-60% linear Na alkylbenzenesulfonate containing 10-50% of the 2-phenyl isomer and having a chain-length distribution of 5% C10-, 0-30% C10, 15-60% C10-11, 10-45% C13-14, 0-25% C14, 15% maximum C14+, and a balance of C12. The II can be Na5P3O10, Na nitriloacetates, Na ethane-1-hydroxy-1,1diphosphonate, and their mixts. The III can be a C10-16 fatty alc. or a C10-16 fatty acid amide, ethanolamide, diethanolamide, isopropanolamide, or butanolamide. Thus, detergent granules were prepared by spray-drying a mixture containing linear Na alkylbenzenesulfonate paste 5.8, Na tallow-alkyl sulfate paste 6, Na silicate (containing 0.9 solids of 1.6:1 SiO2:Na2O ratio) 2, C10-14 fatty acid amide 0.35, Na toluenesulfonate 0.3, Na5P3O10 7.5, H2O 1, Na carboxymethyl cellulose 0.0545, and benzotriazole 0.003 kg. The detergent granules had excellent detergency, and their organic constituents were easily biodegradable.

L6 ANSWER 55 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1966:91984 CAPLUS

DN 64:91984

OREF 64:17246g-h,17247a

TI Degrading water-soluble polymers with ferrous salts and a ferric chelating agent

IN McKennon, Keith R.

PA Dow Chemical Co.

SO 4 pp.

DT Patent

LA Unavailable

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

US 3240737 19660315 US 1963-333744 19631226 <--

PI US 3240737 19660315 US 1963-333744 19631226 <-AB High-mol.-weight, water-soluble natural or synthetic polymers are reduced in
mol. weight by treatment with an oxygenated aqueous medium to which is added
0.00001-5% Fe++ and 0.001-5% of a Fe3+ chelating agent (based on the aqueous
medium). For example, to an oxygenated 3% aqueous solution of NaCl was added
0.5% of a polyacrylamide (mol. weight .apprx.2 + 106) in which
.apprx.25% of the carboxamide groups had been hydrolyzed to Na carboxylate
groups. After adjusting to pH 7 with HCl, the initial viscosity of the
solution was .apprx.10 cp. Then 78.4 ppm. (on total solution) of trisodium
N-hydroxyethylethylenediamine triacetate was added. After 5 min., the
viscosity was unchanged. Then 9 ppm. Fe++ was added as a dilute aqueous
solution

of ferrous ammonium sulfate. After 5 min. the viscosity was 4 cp., indicating a great reduction in the mol. weight of the polymer. Similar results

were obtained with dilute solns. of hydroxypropyl methyl cellulose ether, a high-mol.-weight Na polystyrene sulfonate, and a poly-(ethylene oxide). Also effective as the ferric chelating agent were citric acid, tetrasodium ethylenediaminetetraacetate, N,N'-ethylenediaminebis(- α -hydroxyacetic acid) and Na hexametaphosphate. The process is useful in the redispersion of flocculated solids in sewage sludge, and in thinning out suspensions of grinding media to permit settling and recovery of dispersed minerals for reuse.

L6 ANSWER 56 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1966:76790 CAPLUS

DN 64:76790

OREF 64:14430b-c

TI Hard-surface cleaning compositions

IN Herrick, Aaron B.

PA Colgate-Palmolive Co.

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SO
    3 pp.
DT
    Patent
    Unavailable
LA
FAN.CNT 1
                                          APPLICATION NO.
                                                                DATE
    PATENT NO.
                        KIND
                              DATE
                       ----
                                          ______
                                                                _____
                              _____
     _____
                              19660308 US 1961-112758
                                                                19610526 <--
PΙ
    US 3239468
    Cleaning compns. for use on tile floors or painted surfaces comprise a
AB
    C8-20 fatty acid-diethanolamine condensate 40-55, an H2O-soluble C10-18
     alkarenesulfonate 15-25, and a nonionic poly(oxyalkylene) alkylphenol
    condensate (containing 5-30 alkylenoxy groups and 6-12 C atoms in the alkyl
    group) 20-45%. The compns. may be used in concns. of 5-20% in liquids
     such as H2O, EtOH, iso-PrOH, or propylene glycol. Thus, to 2.5 g. EDTA at
    20° were added 30 g. of nonylphenol-ethylene oxide condensate
     containing 73% ethylene oxide. Next, 45 g. of coconut fatty
    acid-diethanolamine condensate were added, followed by 42.5 g. of an aqueous
     slurry containing approx. 20 g. of 100% active tridecylbenzenesulfonate.
    mixture was stirred at 20° to give a clear, brown, viscous
     concentrate with a pH of 10.6 and a Brookfield viscosity (20° number 7
     spindle, 20 rpm.) of 20,000 cps. When used at a concentration of 2.0%, 4 com.
     cleaners removed 90-100% of wax from floor tiles while the above composition
     removed 0-10%.
    ANSWER 57 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
ΑN
    1966:52806 CAPLUS
     64:52806
DN
OREF 64:9909d-f
    Bead polymers in aqueous medium containing calcium phosphate and an amino
    polyacetic acid compound
IN
    Harris, Alva F.
PΑ
    Monsanto Co.
     3 pp.
SO
    Patent
DT
    Unavailable
LA
FAN.CNT 1
                      KIND DATE APPLICATION NO.
                                                               DATE
     PATENT NO.
                              19651207 US 1961-91581
                      ----
                                                                _____
     ______
                                                                 19610227 <--
PΙ
     By adding 0.5-15% (based on the weight of Ca3(PO4)2 used) of an amino
AΒ
    polyacetic acid, such as ethylenediaminetetraacetic acid, to the recipe
     used for the suspension polymerization of vinylidene monomers, such as
     styrene, with Ca3(PO4)2 used as the suspending agent, smaller, more
     uniform-sized beads are prepared For example, the following polymerization
     recipe gives a bead polystyrene with an average diameter of 6350 mμ: water
     200, styrene 100, Ca3(PO4)2 2, CaCO3 0.24, and (BzO)2 0.20 part. When
     0.01-0.3 part tri-Na (hydroxyethyl)ethylenediaminetriacetate (I) is added,
     the average diameter of the bead is reduced (parts I added and average
diameter of
    polymer beads (mµ) given): 0.01, 3911; 0.02, 432; 0.03,432; 0.05, 326;
     0.10, 147; 0.30, 5670; 0.50-2.00, coagulated. The tetra-Na salt of
     ethylenediaminetetraacetic acid produced similar results.
    ANSWER 58 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
ΑN
     1966:30391 CAPLUS
     64:30391
OREF 64:5663h,5664b-c
     Toxicity of some new chelating agents for radiostrontium removal
TI
ΑU
     Kostial, Krista; Maljkovic, Tea, Slat, Blanka; Weber, O.
```

The following chelating compds. were compared with respect to their acute

intraperitoneal L.D.50: EDTA, DTPA (diethylenetriaminepentaacetic acid),

Arhiv Hig. Rada Toksikol. (1962), 13(4), 295-8

DIMEDTA (dimethylethylenediaminetetraacetic acid), PDTA

SO

DT

LA

AΒ

Journal

English

(propylenediaminetetraacetic acid), HEDTA (N-hydroxyethylethylenediaminetriacetic acid). The toxicity of the newly synthesized compound DIMEDTA is almost equal to the toxicity of DTPA, both substances being less toxic than the other three complexing agents. L.D.50 values for PDTA are within the values found for EDTA.

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ANSWER 59 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
    1965:447066 CAPLUS
AN
DN
    63:47066
OREF 63:8581b-d
    Filmforming polymers
    Hwa, Jesse C: H.
IN
    Rohm & Haas Co.
PA
SO
    22 pp.
DT
    Patent
    Unavailable
LA
FAN.CNT 1
                   KIND DATE APPLICATION NO.
                                                              DATE
    PATENT NO.
                      ----
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                                         ------
PΤ
    BE 646619
                             19641016
                                         BE
                                                                        <--
                                         FR
    FR 1393776
                              19630416
PRAI US
    Latexes containing CO2H groups, which are prepared from a H2O-insol. polymer
AB
     (containing 3-20 weight % CO2H) of an unsatd. carboxylic acid and a nonionic or
    anionic dispersant, which may contain CO2H groups, are treated with a
    Cu++, Hg++, Ca, Mg, Sr, Ba, Al, Pb, Zr, Cm, Cr, Zn, Fe, Mn, Ni, or Sn
    oxide, hydroxide, or salt, and the coagulated latexes are filtered to give
    polymers that can be molded, redispersed in aqueous solution, and used as
    coatings. Thus, 100 parts latex of 87:10:3 (by weight) Et acrylate-Me
    methacrylate-itaconic acid terpolymer (I) containing 5 weight % (on I)
    C8H17C6H4O(CH2CH2O)40CH2CH2OH is treated with 18 parts
    diisobutylene-maleic anhydride copolymer (semiamide, semi-NH4 salt), the
    mixture is agitated, 57 parts 10% CaCl2 is added, and the coagulated polymer
    is separated, dried at 60°, and ground to give a powder of sp. gr.
     0.404 g./ml. The product (35 parts) is dispersed in a solution of 25 parts
     (NaO2CCH2) 2N [CH2-CH2N(CH2CO2Na)] 2CH2CO2Na in 150 parts H2O, and the latex
    obtained is dried in air to give a polymer film.
    ANSWER 60 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
    1965:401184 CAPLUS
AN
    63:1184
DN
OREF 63:183g-h,184a
    Production of photographic polymeric images by heat development
    Millard, Frederick W.; Laman, Richard F.
IN
    General Aniline & Film Corp.
PA
     5 pp.
SO
    Patent
DT
    Unavailable
LΑ
FAN.CNT 1
                 KIND DATE APPLICATION NO. DATE
    PATENT NO.
    US 3178283 19650413 US 1961-107669 19610504 <--
PΙ
    Superior light-sensitive materials are obtained by utilizing the
AB
    photodecompn. products of an aromatic light-sensitive diazo compound to
     control or modulate polymerization of ethylenically unsatd. monomeric
     compds., where a thermal initiator is employed for the purpose of
     triggering such polymerization. Especially useful compds. are the vinyl or
     vinylidene compds. activated by direct attachment to a neg. group such as
    halogen, CO, CN, C.tplbond.C, O, or aryl, e.g., acrylamide. The diazo
     compds. are employed in the form of their stabilized salts, e.g.,
    p-diphenylaminediazonium sulfate. Thus, a baryta paper base was coated
     with a composition of 10 g. poly-(vinyl pyrrolidinone) K-15, 50 ml. 95% EtOH,
     and 1 q. [Me2C-(CN)N:]2. The resulting coating was then overlaid with a
     mixture of 5 g. gelatin, 50 ml. H2O, and 1 g. Na 2-diazo-l-naphthol-5-
```

sulfonate and 5 ml. of the monomer solution containing acrylamide 180, N,N'-methylenebisacrylamide 7, and H2O 120 parts. The resulting coating was dried, exposed, and developed, after which the unpolymerized material was removed by washing with warm H2O to give a high-definition pos. photographic polymeric image. The invention is useful in the production of relief printing plates.

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ANSWER 61 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
AN
    1965:401183 CAPLUS
DN
    63:1183
OREF 63:183f-q
    Bleach-fixing bath
    Jacobson, Kurt I.
IN
PA
    Pavelle Ltd.
SO
    3 pp.
    Patent
Unavailable
DT
LA
FAN.CNT 1
    PATENT NO.
                                          APPLICATION NO.
                      KIND
                               DATE
                               19650505 GB 1961-16054
                                                                 -----
PΙ
    GB 991412
    A photographic bleach-fix bath comprises a ferric salt of an alkylene
AB
     amine polyacetic acid as bleaching agent, a Ag halide solvent as fixing
    agent, and a nonchelate salt of an alkylene amine polyacetic acid in a weight
     ratio of 1:3 to the ferric salt to stabilize the bath. Thus, a subject
    bath contains 100 g. (NH4)2S2O3, 20 g. NH4SCN, 12 g. di-Na
     ethylenediaminetetraacetate, 35 g. Na ferric ethylenediaminetetraacetate,
     3 g. thiourea, and H2O to 1 1.; the pH is 6.5. At 80°F. developed
     film is fixed and bleached in 5 min., and paper in 1-2 min.
    ANSWER 62 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
AN
     1964:485223 CAPLUS
DN
     61:85223
OREF 61:14904b-d
     Solubilizers for sulfonate detergents
TΙ
     Schiltz, Lee R.; Rogers, Russell H.; Rogers, Evelyn
IN
    Swift & Co.
PA
SO
     3 pp.
DT
    Patent
    Unavailable
LA
     PATENT NO.
                       KIND DATE
                                          APPLICATION NO.
                       ----
                               19640929 US 1961-95435
                                                                  19610313 <--
PΙ
    US 3151084
    The H2O solubility of detergent compns. (I) consisting essentially of an
AB
     alkylarenesulfonate and an inorg. detergency builder salt is improved by
     addition of 0.25-4% by weight of a mixture of 50-95% by weight tetra-Na EDTA
(II) and
     5-50% of the Na salts of N, N-bis(2-hydroxyethyl)glycine (III),
     iminodiacetic acid, nitrilotriacetic acid, or
     hydroxyethylethylenediaminetriacetic acid. In mixing I, an aqueous slurry of
     the detergents containing 25-50% of their weight of H2O is made before
addition of
     the amino compds., after which the aqueous mixture can be dried or used in a
     slurry form. Thus, a detergent consisting of Na dodecylbenzenesulfonate
     30, Na2SO4 50, NaCl 10, and Na3PO4 10%, when made into a 5% aqueous solution,
     heated to 150°F., and cooled to 80°F. produced considerable
     precipitate After addition of 0.50% of a mixture of 85% II and 15% III and
subjecting
     the composition to heating and cooling, no precipitate was present.
```

L6 ANSWER 63 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1964:447242 CAPLUS

DN 61:47242

OREF 61:8142h,8143a

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Stable compositions of the alkali metal salts of penicillins and
ΤI
    polyacetic acids
IN
    Goldberg, Martin
    Olin Mathieson Chemical Corp.
PA
SO
    2 pp.
\mathbf{DT}
    Patent
    Unavailable
LA
FAN.CNT 1
                      KIND DATE
                                        APPLICATION NO.
                                                               DATE
    PATENT NO.
                                         ______
                              -----
                                                               _____
                                                             19620305 <--
                              19640721 US 1962-177265
PΙ
    US 3141822
PRAI US
                              19620305
    Chemical synthesized penicillins or their salts were stabilized by blending
    with an alkali metal salt of a polyacetic acid (ethylenediaminetetraacetic
    acid, diethylene-triaminepentaacetic acid, N-hydroxyethylenediaminetriacet
     ic acid, nitrilotriacetic acid, and 1,2-diaminocyclohexanetetra-acetic
     acid). Thus, 1 g. Na dimethoxyphenylpenicillin was blended under sterile
    conditions with 50 mg. tri-Na ethylenediaminetetraacetic acid and filled
     in a vial. The composition was reconstituted by adding 1.5 ml. of H2O for
     injection and then stored at room temperature The composition remained stable
for 4
    days.
    ANSWER 64 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
    1964:435668 CAPLUS
ΔN
DN
    61:35668
OREF 61:6258b-c
    Stabilization of aqueous alkanolamine solutions in gas-treating processes
    Johnson, Wayne W.; Lew, Marshall; McElwain, Robert E.
IN
    U.S. Dept. of the Navy
PA
SO
    5 pp.
    Patent
DT
    Unavailable
LA
                     KIND DATE APPLICATION NO.
    PATENT NO.
                                                             DATE
                      19640616 US 1961-98986
                                                              -----
    US 3137654
PΙ
                                                              19610328 <--
    Oxidative deterioration of aqueous alkanolamine solns. used as CO2 scrubbers
AΒ
     to purify air results in darkening of the solution and generation of NH3.
     The presence of 1.1-4.5 volume % chelating agents such as N,N-bis-
     (hydroxyethyl)glycine, N-hydroxyethylethylenediaminetriacetic acid, EDTA,
     and their salts prevents this.
    ANSWER 65 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
AN
    1964:75737 CAPLUS
DN
    60:75737
OREF 60:13342d-f
    Grafting dienes onto vinyl polymers
    Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques
PΆ
     6 pp.; Addn. to Fr. 1,276,804 (CA 57, 11401i)
SO
DT
    Patent
T.A
    Unavailable
FAN.CNT 1
                     KIND DATE
                                        APPLICATION NO.
    PATENT NO.
                                         ______
                                                                _____
                       ----
    FR 82090
                              19531220
                                         FR 1962-903185
                                                               19620706 <--
PΤ
PRAI FR
                              19620706
    The process of the main patent is modified by using <0.01% of the
     complexing agent, especially if this agent is an alkali metal salt of EDTA or
     nitrilotriacetic acid. Thus, stearic acid 11.2, NaOH 0.5, K2S2O8 0.45,
     Na2S2O5, 0.225, and CH2:CHCl 850 g. in 3 l. deionized H2O were polymerized
     at 60° under N to 90% conversion. The remaining monomer was
     discharged, by expansion and flushing with N, and the mixture cooled to
     20°. Na EDTA 0.004 in a degassed solution of freshly distilled butadiene
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170 and Me methacrylate 170 g. were added and polymerized at 40°.

The rate of conversion was 15%/hr.

- L6 ANSWER 66 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1964:28564 CAPLUS
- DN 60:28564
- OREF 60:5023h,5024a-c
- TI Some aspects of the theory of corrosion of reactor materials in critical-parameter water
- AU Gerasimov, V. V.; Gromova, A. I.; Moskvichev, G. S.
- CS Acad. Sci. U.S.S.R., Moscow
- SO · Corrosion Reactor Mater., Proc. Conf., Salzburg, Austria, 1962 (1962), 1, 77-90
- DT Journal
- LA Russian
- AB In a study of the kinetics of electrode processes in autoclave tests at temps. up to 300° and pressures up to 87 atmospheric, tests were made on low-alloy Cr and Cr-Ni steels and Al alloys. Anode polarization curves showed areas of passivity and overpassivity where active dissoln. of the metals occurred. With steady potential conditions in neutral medium, the rates of the cathodic processes, O ionization, and H+ discharge were similar; increased O concentration in the H2O did not affect the kinetics of

the

anodic processes but increased the cathodic rate and shifted the potential towards a pos. value. Increasing O levels in the H2O increased the rate of corrosion of the low-alloy steel to a maximum value. Inhibition of corrosion of these metals did not appear to be related to O in the H2O. Under certain potential conditions Cl- participates directly in the anodic process, renders the metal impassive, and increases the rate of metal corrosion. The effects of SO42-, CO32-, and corrosion products, both in solution and on the metal surface are also considered in terms of the kinetics of the electrode processes and of the corrosion resistance of these structural materials. In the case of the steel specimens, n irradiation did not affect the kinetics of the anodic process but increased the rate of the cathodic reaction; irradiation did not increase the overall corrosion rate.

- L6 ANSWER 67 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1963:483819 CAPLUS
- DN 59:83819
- OREF 59:15608f-g
- TI Effects of two chelating agents on absorption and translocation of Fe, Cu, Mn, and Zn by the cotton plant
- AU Guinn, Gene; Joham, Howard E.
- SO Soil Science (1962), 94(4), 220-3 CODEN: SOSCAK; ISSN: 0038-075X
- DT Journal
- LA Unavailable
- AB Cotton plants (Gossypium hirsutum var. Paymaster 54B) were grown in nutrient solns. containing 0, 25, 50, 100, or 200 micromoles ethylenediaminetetraacetic acid (EDTA) or hydroxyethylenediaminetetraacetic acid (HEEDTA)/l. in the Na salt form. Plants were harvested after 21 days and the concns, of Fe, Cu, Mn, and Zn in the leaves and roots determined Addition of both chelating agents increased Fe and decreased Mn and Zn contents of leaves. Best results were from the 50 micromoles/l. concentration Higher concns. decreased Fe accumulation in leaves. EDTA and HEEDTA promoted translocation of Fe, interfered with Mn translocation and decreased Cu and Zn uptake. Mn content of roots was increased while Fe, Cu, and Zn contents were reduced by both agents.
- L6 ANSWER 68 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1963:37168 CAPLUS
- DN 58:37168
- OREF 58:6339g-h
- TI Infrared spectra of aqueous solutions. III. Ethylenediaminetetraacetic

acid, n-hydroxyethylethylenediaminetriacetic acid, and diethylenetriaminepentaacetic acid Nakamoto, Kazuo; Morimoto, Yukiyoshi; Martell, Arthur E. ΑU CS Illinois Inst. Technol., Chicago Journal of the American Chemical Society (1963), 85, 309-13 SO CODEN: JACSAT; ISSN: 0002-7863 DT Unavailable LA cf CA 57, 5478q. Infrared spectra of these acids are reported. AB Structures of the predominant species in solution at various pH values are elucidated by combining the results of infrared studies with those of potentiometric titration. Structures of insol. species are also deduced from the spectra of the crystalline compds. ANSWER 69 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN L6 1963:7602 CAPLUS AN DN 58:7602 OREF 58:1210e Chemical milling of magnesium TN Zussman, Hyman W.; Pines, Robert M. PΑ Geigy Chemical Corp. 2 pp. SO Patent DTUnavailable LΑ PATENT NO. KIND DATE APPLICATION NO. DATE · 19621113 US 1959-848515 _____ 19591026 <--US 3063944 PΤ Mg is chemical milled when immersed in a bath containing Na and NH4 AB ethylenediaminetetracetate (EDTA), diethylenetriaminepentaacetate, or hydroxyethylethylenediaminetriacetate. A bath containing 10 parts di-Na EDTA/100 parts aqueous solution is prepared, the bath is heated at 85-90°, Mg is immersed in the bath for approx. 10 min., and 60% of the Mg is milled away. ANSWER 70 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN L6 AN 1963:5401 CAPLUS 58:5401 DN OREF 58:879d-e,880a-b Prevention of aftercooking gray discoloration in potatoes and other TI vegetables Fellers, John C.; Morin, Edward L. IN Seabrook Farms Co. PΑ SO 3 pp. DT Patent Unavailable LA KIND DATE APPLICATION NO. PATENT NO. 19620814 US 1959-829965 19590728 <------US 3049427 PΙ Aftercooking discoloration of vegetables was prevented by treating the AB vegetables, no later than the time of their initial subjection to a temperature high enough to trigger the discoloration, with a solution of ethylenediaminetetraacetic acid (EDTA) having a concentration of 0.03-0.7% by weight A pH of 2-9, which did not impart objectionable flavor to the vegetables, was maintained. The vegetables were treated with the solution of EDTA at

A pH of 2-9, which did not impart objectionable flavor to the vegetables, was maintained. The vegetables were treated with the solution of EDTA at 120-212°F. for a time sufficient for the temperature range to penetrate the vegetables. The use of 1 part EDTA with 2 parts Al2(SO4)3 at pH 3 was very effective in preventing aftercooking discoloration. Na4EDTA, Na3EDTA, Na2EDTA. Ca2Na2EDTA, Al2Na2EDTA, and CHEL-DM acid and CHEL-330 acid (com. (hydroxyethyl)ethylenediaminetriacetic acid and diethylenetriaminepentaacetic acid, resp.) have also been effectively used. Sweet potatoes, white potatoes, yams, cauliflower, and egg plant were also successfully treated for aftercooking discoloration.

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ANSWER 71 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
AN
    1962:471277 CAPLUS
DN
    57:71277
OREF 57:14216i,14217a
    Soil improvement by chelating agents
    Bersworth, Frederick C.
IN
    Dow Chemical Co.
PA
so
    5 pp.
DT
    Patent
LΑ
    Unavailable
                       KIND DATE
                                       APPLICATION NO.
                                                               DATE
    PATENT NO.
                   ______
                                                               _____
                            19620828 US 1957-697515
                                                               19571120 <--
PΙ
    Fe chelate combined with a free chelating agent improved the soil over a
AB
    large pH range. The chelating agent has a general formula
    A(X)N(RNX)nRN(X)Y where R is a C2-3 alkylene group, X is AcO or PrO, an
    alkali metal, or NH4 salt; A is H, an alkyl, alkoxy, aralkyl, or
    sulfhydryl group; Y is either A or X; and n an integer from 0-4. The
    addition of the chelating agent and chelate to the soil may be made directly
    by application of the pure compound or with a carrier, or they may be added
    in solution
    ANSWER 72 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
    1962:51398 CAPLUS
AN
DN
    56:51398
OREF 56:9716b-c
    Stabilizing sulfur-containing alkaline solutions
    Henry, Robert C.
    Universal Oil Products Co.
PA
DT
    Patent
LΑ
    Unavailable
                      KIND DATE APPLICATION NO.
                                                             DATE
    PATENT NO.
                             19620116 US 1959-858570 19591210 <--
                                                              -----
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                      ---- --<del>-</del>----
PΤ
    The loss of H2S from KOH solns. was greatly reduced by addition of the
    pentasodium salt of diethylenetriaminepentaacetic acid, the trisodium salt
    of N-hydroxyethylethylenediaminetriacetic acid, or other aminoalkanoic
    acid salts. The same stabilizers reduced the losses of mercaptans from
    KOH solution from about 50% loss in 1 hr. and 100% in 24 hrs. with no
    stabilizer to less than 1% for either time with 1% stabilizer.
    ANSWER 73 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
AN
    1962:37351 CAPLUS
DN
    56:37351
OREF 56:7004f
    Corrosion inhibitors
IN
    Newman, Theodore R.
    Nalco Chemical Co.
PA
DT
    Patent
    Unavailable
LΑ
                                       APPLICATION NO.
                       KIND
                              DATE
                                                               DATE
    PATENT NO.
                             19611205 US 1958-734827
                      ----
                                                              . _ _ _ _ _ _
                                                              19580513 <--
ΡI
    The synergized CN-PO4 treatment described in U.S. 2,515,-529 (CA 44,
ΑB
     8312f) is modified by the addition of 1-15 p.p.m. chelating agent. Thus, the
    addition of 5 p.p.m, tri-Na N-hydroxyethylethylenediaminetriacetate to a
    CN-PO4 inhibitor solution reduced the corrosion rate of mild steel in
    recirculating cooling H2O from 4.3 to 1.9 mils/year.
    ANSWER 74 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
    1962:33746 CAPLUS
AN
    56:33746
DN
    Factors affecting and methods of determining potato chip quality
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AU Smith, Ora
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CS Cornell Univ., Ithaca, NY

SO American Potato Journal (1961), 38, 265-71 CODEN: APOJAY; ISSN: 0003-0589

DT Journal

LA Unavailable

AB Potato chip color is affected by soil H2O and temperature during potato growth. Spraying plants during the growing season with NaHSO3, chloro IPC, tetra-Na salt of ethylenediaminetetraacetic acid, and the tri-Na salt of N-hydroxyethylethylenediaminetriacetic acid results in chips of lighter color. Development and accumulation of reducing sugars in potatoes stored at 40°F. are greatly retarded by short exposure of potatoes to SO2 before storage, resulting in lighter colored chips.

L6 ANSWER 75 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1962:8008 CAPLUS

DN 56:8008

OREF 56:1545h-i,1546q

TI Effect of sodium tridecanedicarboxylates on the surface-active and washing properties of sodium tridecanemonocarboxylates

AU Asinger, Friedrich; Bochnia, Dieter

CS Tech. Hochschule, Dresden, Germany

SO Journal fuer Praktische Chemie (Leipzig) (1961), 13, 1-22 CODEN: JPCEAO; ISSN: 0021-8383

DT Journal

LA Unavailable

AB Surface tension, immersion wetting-, foaming-, and degreasing capacity were measured of aqueous solns. of 5 isomeric Na tridecanecarboxylates, 3 isomeric tridecanedicarboxylates, and mixts. of mono- and dicarboxylates. As the CO2H group was shifted to the middle of the C chain the properties of the mono acid salts became worse; the same quality showed diacid salts with the increased distance of the CO2H groups. The presence of diacid salts enhances the washing properties of the monoacid salts, even when present at 60-80%. All acids were prepared by malonic ester synthesis.

L6 ANSWER 76 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1961:120006 CAPLUS

DN 55:120006

OREF 55:22608i,22609a-b

TI A new category of contrast media: water-soluble radiopaque polyvalent chelates

AU Nalbandian, Robert M.; Rice, William T.; Nickel, Warren O.

CS Wayne State Univ., Detroit, MI

SO Annals of the New York Academy of Sciences (1959), 78, 779-92, discussion 791-2 CODEN: ANYAA9; ISSN: 0077-8923

DT Journal

LA Unavailable

AB The use of di-Na Bi diethylenetriaminepentaacetate (Bi DTPA) (I) as contrast medium in dogs gave bronchograms of diagnostic quality. The absorption was rapid and doses 3 times the theoretical were tolerated. In angiocardiographic studies the useful dose of I approached the M.L.D. The chelate was rapidly excreted, but renal lesions were demonstrated. The use of di-Na Ca diethylenetriaminepentaacetate in conjunction with I is discussed.

L6 ANSWER 77 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1961:107567 CAPLUS

DN 55:107567

OREF 55:20246a-b

TI Food additives. Chelating agents used in the manufacture of paper and paperboard

AU Anon.

SO Federal Register (1961), 26, 6512, 20 Jul 1961

CODEN: FEREAC; ISSN: 0097-6326

DT Journal

LA Unavailable

AB Na glucoheptonate, tetrasodium ethylenediaminetetraacetate, trisodium N-hydroxyethylethylenediaminetriacetate, or their combinations may be used under the Food, Drug, and Cosmetic Act for the title purpose in an amount not greater than that required to accomplish the intended tech. effect.

L6 ANSWER 78 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1960:21638 CAPLUS

DN 54:21638

OREF 54:4212f-i,4213a

TI Cleaning and plating of ferrous metals

IN Meyer, Walter R.

PA Enthone, Inc.

DT Patent

LA Unavailable

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI US 2915444 19591201 US 1955-551977 19551209 <-DE 1116013 DE

AB Ferrous articles coated with rust and grease are cleaned and electroplated in a single operation. They are immersed in a strongly alkaline aqueous solution (pH

≥ 10) containing a H2O-soluble organic complexing agent for Fe oxides, a cyanide, and a salt or oxide of a metal, such as Zn, Sn, Cd, or Cu, at 70-150°F. An elec. current is repeatedly applied for about 30 sec. with the article as cathode and then for 10 sec. with the article as anode. This cycle is continued for 2-30 min., and then the article can be plated with the metal in the same solution The complexing agent can be 1 or more of soluble organic compds. capable of complexing Fe oxides and having at least 2 OH or amino groups or both, such as ethylene glycol, mannitol, glucose, hydroxy carboxylic acids, amino carboxylic acids, nitrilotriacetic acid, salts of ethylenediaminetetraacetic acid, or N-(2-hydroxyethyl)ethylenediaminetriacetic acid salts. For cleaning only, the solution should contain NaOH or KOH 25-200, complexing agent 30-120, and NaCN or KCN 0-120 g./l. A preferred dry mixture contains NaOH 36, Fe-ion complexing agent 30, and NaCN 34%, and about 300-400 g./l. of the mixture is dissolved. The elec. current should be applied at 25-125 amp. c.d./sq. ft. of surface of the article, the other electrode being a C rod. Either a.c. of 10-60 cycles/sec., or d.c. current can be used for cleaning but only d.c. for plating. The cleaning time is usually 2-7 min. and is shorter when cyanide is present. Thus, in an aqueous solution containing 200 g./1.

NaOH and 100 g./l. Na gluconate at 100°F. steel was treated as with 25 amp./sq. ft. for 2 min. to remove the rust completely. With NaCN 100 g./l. also in the solution, the rust removal was complete in 90 sec. With ZnO 19 g./l. and addnl. NaCN in a similar solution at 125°F., electrolysis with 50 amp./sq. ft. began as soon as the surface was clean.

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L6 ANSWER 79 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
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AN 1959:126732 CAPLUS

DN 53:126732

OREF 53:22760c-i

TI Organic ferric compounds for intramuscular injection

IN Rubin, Martin

DT Patent

LA Unavailable

FAN.CNT 1

which M represents an alkali or alkaline earth metal or an organic, nontoxic cation, were prepared and tested as Fe donors; the compds. are electrically neutral. These compds. had the following advantages in intramuscular administration: nontoxic; held the Fe so tightly that there was neither hydrolysis nor precipitation in the tissues; the Fe was not precipitated in the blood

stream; the organic part of the complex is nonmetabolizable, the unutilized part being excreted in the urine. Some organic M groups used, e.g. procaine, served to reduce rate of excretion from body, permitting longer action. The Na salt of I was prepared by converting com. N-(2-hydroxyethyl)ethylenediamine to its triacetate by treating it with HCHO and HCN or otherwise (cf. Chaberek and Martell, C.A. 50, 1591h), followed by a procedure given in detail in the patent. In this process, up to 5% of the Fe-free I remained, and this was deemed advantageous in the medicament since it acted to stabilize I, probably by inhibiting the

precipitation
 of Fe(OH)3 or Fe(OH)2. Similarly, the Mg, Ca, and K salts of I were
 prepared Other salts of I were prepared using the following compds.:
 dibenzylamine; procaine; 1-phenyl-2-methylaminopropanol;
 N-methyl-1,2-diphenyl-2-hydroxy ethylamine; N,N-dibenzylethylenediamine;
 N,N-bis(dihydroabietyl)ethylenediamine. Ethylene oxide was allowed to
 react with 1,2-diaminocyclohexane to give the N-2-hydroxyethyl derivative,

which on further reaction with HCHO and HCN and hydrolysis with H2SO4 yielded 1,2-diaminocyclohexylene-N-(2-hydroxyethyl)-N,N'N'-triacetic acid, from which the Na-Fe complex was prepared by the process mentioned above. The Na-Fe complex of N-(2-hydroxyethyl)-1,2-propylenediamine-N,N',N'-triacetic acid was prepared from the appropriate base, and then the cations and amines mentioned were used to prepare salts. By interaction of MeCHO, NaCN, and (CH2NH2)2 in NaOH solution N-(2-hydroxypropyl)ethylenediamine was prepared and from this the N,N',N'-triacetic acid; then the cations and amines mentioned were used to prepare salts. These compds. could be used dissolved in pyrogen-free H2O, isotonic NaCl solns., or glucose solns. Solns. with 15 mg. Fe/ml. pyrogen-free H2O had a pH of 7.4 approx. The amorphous product precipitated by EtOH, containing about 2% of the Fe-free M3

e.g. tri-Na salt, was preferred for pharmaceutical uses. Tests on rats showed curative value in Fe deficiency anemia for these compds., whereas a similar group receiving Fe saccharate intramuscularly showed no improvement.

L6 ANSWER 80 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1959:121127 CAPLUS

DN 53:121127

OREF 53:21583g-i

TI Sequestering compositions for corrosion prevention

PA Thomas Hedley Co. Ltd.

DT Patent

LA Unavailable

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI GB 814858 19590610 GB 1957-20897 19570702 <--

AB Monoalkyl polyethylene glycol phosphates (I) are added in amts. of 3-40% to sequestering compns. containing aminopolycarboxylates to retard or prevent corrosion to Al, Zn, Ni, and German silver. Thus, an inhibitor composition consisted of 20 parts Na salt of polypropylene benzenesulfonate (average 12 C atoms in the alkyl portion), 50 parts Na ethylenediaminetetraacetate, 5 parts Na salt (II) of the phosphated reaction product of 2 moles ethylene oxide with 1 mole hardened sperm alc., 20 parts Na2SO4, and 5 parts H2O. In a control composition, 5 parts Na2SO4 replaced II. Test strips of Al, Zn, and German silver were immersed in the 2 solns. The solution containing the II caused weight losses of 1.4, 0.8, and 1.1 mg., resp., after 3 hrs. at 140°F. Under the same conditions, using the control composition, weight losses were 45, 6.9, and 1.4 mg., resp. Compds. of the formula

R(OC2H4)xOPO3XY, in which R is an alkyl group of 14-22 C atoms, x is 1-7, and X and Y are each H, Na, K, NH4, or hydroxymethyl-substituted ammonium, can be used as the corrosion inhibitors. Use as the Ca-sequestering amino-polycarboxylate of a salt of N-hydroxyethylethylenediaminetriacetic acid and of salts of nitrilotriacetic acid is claimed.

ANSWER 81 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN L6

AN 1959:64808 CAPLUS

DN 53:64808

OREF 53:11769c-f

Recovery and purification of tetracyclines TI

American Cyanamid Co. PΑ

DT Patent

Unavailable LA

FAN.CNT 1

APPLICATION NO. KIND DATE DATE PATENT NO. ----

PΙ GB 808362 19590204 GB

Fermentation mash (3 1.) from Streptomyces aureofaciens culture was AB brought to pH 1.5 with H2SO4, 60 g. diatomaceous earth was added, the mixture stirred, filtered, the cake slurried with 3 l. H2O, 25% H2SO4 added to pH 1.5, and the mixture filtered. To 5 l. of the combined filtrates, containing 1520 μg . chlortetracycline/ml., 15 g. com. Na ethylenediaminetetraacetic acid, 10N NaOH to pH 3.5, and 18 ml. 75% Aerosol OT were added. The mixture was stirred for 20 min., 10N NaOH added to pH 7, 100 ml. 0.5% solution of vinyl acetate-maleic anhydride copolymer (mol. weight about 50,000) was added. The mixture was allowed to settle for 2 hrs., then 4 l. of supernatant liquid was siphoned off. Diatomaceous earth (5 g.) was added to the residue. The mixture was stirred for 10 min. and filtered through a Buchner funnel precoated with 5 g. of the earth. The cake was stirred and 6N HCl added to pH 2. The mixture was filtered. The cake was mixed with 48 ml. 2-ethoxyethanol (I). The suspension was filtered through a Buchner funnel. The cake was washed with 12 ml. I, the filtrates combined, HCl added to pH 0.5, 0.8 g. NaCl added, and the mixture shaken for 36 hrs. to crystallize completely the chlortetracycline-HCl which was filtered, washed successively with I, water, and EtOH, and then dried. The crystals assayed 960 $\mu g./mg.$, E (1%, 1 cm.) at 460 $m\mu = 0.334$, with 66% recovery from the mash. Other polymeric polyelectrolyte flocculating agents, Na alkyl sulfosuccinates, and chelating agents are used in modifications of the procedure.

ANSWER 82 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN L6

AN 1959:44820 CAPLUS

53:44820 DN

OREF 53:7994h-i,7995a

Aminoalkyl acids and their derivatives TI

Sundberg, Robert L.; Chiddix, Max E.; Williams, Earl P. IN

PA . General Aniline & Film Corp.

DT Patent

LΑ Unavailable

FAN.CNT 1

DATE APPLICATION NO. DATE KIND PATENT NO. 19581111 US 1956-622735 ____

19561119 <--ΡI US 2860160

Aqueous methyltaurine (459 g.) and 400 ml. Me2CHOH heated to 75°, 276.4 AB g. 3-(p-nonylphenoxy)propylene oxide added dropwise during 1.33 hrs., the mixture refluxed 2.75 hrs., and the solvents distilled in vacuo until excessive foaming occurred gave 788.5 g. product (I), converted to excellent foam by the Ross-Miles method. I (79 g.) adjusted to pH 4 with N HCl, evaporated to dryness, dissolved in 300 ml. anhydrous EtOH, filtered, and 18.5 g. lauryl amine added to the EtOH solution gave the lauryl amine salt of N-methyl-N-[2-hydroxy-2-(p-nonylphenoxy)propyl]taurine. Similar products were prepared form sarcosine and β -alanine. The products are useful to emulsify vegetable and mineral oils in water, to inhibit rusting of steel,

and to treat and process textiles.

(II) of

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ANSWER 83 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
AN
     1959:36177 CAPLUS
DN
     53:36177
OREF 53:6481a-c
     Stabilization of sorbic acid salts
ΤI
     Montagna, Amelio R.; Lashley, Everett R.
IN
     Union Carbide Corp.
PA
DT
     Patent
    Unavailable
LA
FAN.CNT 1
                                           APPLICATION NO.
                                                                  DATE
     PATENT NO.
                       KIND
                               DATE
                                           _____
                                                                  -----
     _____
                       _ _ _ _
                               _____
                               19581230
                                          US 1957-637893
                                                                  19570204 <--
PΙ
     US 2866818
     Aqueous solns. of I are stabilized by incorporation of an amine of the type
AB
     N(CH2-)3, in which 2 of the CH2 groups are attached to an organic group
     containing only 1 C atom. Thus, O was bubbled through a solution containing
     part ethylenediaminetetraacetic acid (EDTA) per 100 parts I for 8 hrs. at
     100°. The color increased from 15 to 150 on the Pt-Co scale. The
     di-Na and tetra-Na salts of EDTA, the mono-Na salts of
     N, N-bis(2-hydroxyethyl)glycine, and the tri-Na salt of
     N-hydroxyethyl-substituted EDTA were also effective.
     ANSWER 84 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
     1959:9332 CAPLUS
AN
     53:9332
DN
OREF 53:1729a-c
     Chelating agents in resin finishing
ΑU
     Cooney, William J.
     Am. Dyestuff Reptr. (1958), 47, P797-P801
SO
DT
     Journal
     Unavailable
LA
     A study of the effect of organic chelating agents in resin baths was
     conducted on mercerized 80/80 cotton fabric by using
     bis(hydroxymethyl)urea, bis(hydroxymethyl)ethyleneurea, and methylated
     melamine-HCHO. The chelating agents used were strongly alkaline, requiring
     increased use of catalyst. Best results were obtained by using the tri-Na
     salt of N-(hydroxyethyl)ethylenediaminetriacetic acid and the penta-Na
     salt of diethylenetriaminepentaacetic acid. Treated samples of cotton
     cloth were dyed with acid and basic colors. Dyeings were deeper on
     samples containing N-(hydroxyethyl)ethylenediaminetriacetic acid. Addition of
     chelating agents to the resin bath improves phys. properties of the
     treated fabrics, in many cases increasing tear and tensile strength and
     reducing Cl damage.
     ANSWER 85 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
     1958:116994 CAPLUS
AN
DN
     52:116994
OREF 52:20758a-c
     A possible relation between the degree of after-cooking discoloration and
     the optical density of extracts of Ontario potatoes
ΑU
     Hunsader, Mercedes L.; Hanning, Flora
CS
     Univ. of Wisconsin, Madison
     American Potato Journal (1958), 35, 543-52
SO
     CODEN: APOJAY; ISSN: 0003-0589
DT
     Journal
LA
     Unavailable
     cf. ibid. 34, 347(1957). Potatoes sprayed with solns. of the Ca, Fe, and
AB
     Na salts of ethylenediaminetetraacetic acid with the acid itself showed an
     increase in after-cooking discoloration with longer periods of storage at
     room temperature following cold storage. Aqueous exts. (I) and press juice
```

cooked potato tissue showed ultraviolet absorption maximum at 270 m μ , whereas alc. exts. (III) showed maximum at 270 and 330 m μ . I and aqueous solns. of II contained more phenolic material than III or alc. solns. of II. Caffeic acid, chlorogenic acid, and tyrosine may not be the principal absorbing substances in potato exts. The peak at 270 m μ appears to be phenolic in nature, but it is doubtful that the peak at 330 m μ is caused by caffeic or chlorogenic acids. The phenols responsible for discoloration were not identified; tyrosine may be present but is masked by the substance absorbing strongly at 270 m μ .

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ANSWER 86 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
     1958:116993 CAPLUS
AN
DN
     52:116993
OREF 52:20757i,20758a
     Potato quality. X. Post-harvest treatment to prevent after-cooking
     darkening
ΑU
     Smith, Ora
CS
     Cornell Univ., Ithaca, NY
     American Potato Journal (1958), 35, 573-84
SO
     CODEN: APOJAY; ISSN: 0003-0589
DT
     Journal
     Unavailable
LA
     cf. C.A. 49, 7772i. Katahdin potato tubers treated with SO2 gas and held
AB
     48 hrs. in a tightly stoppered container at 50 or 75°F. showed no
     after-cooking darkening. Tubers dipped 2 min. in 2% solns. of NaHSO3,
     Na2H2P2O7, Na gluconate, or Versenol (tri-Na salt of N-
     hydroxyethylethylenediaminetriacetic acid) and held 48 hrs. at 75°
     showed little or no darkening. 43 references.
     ANSWER 87 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
AΝ
     1958:63435 CAPLUS
DN
     52:63435
OREF 52:11424g-h
     Compound product for disinfecting or sterilizing paper-making pulps
TI
     Prochim S. A.
PΑ
     Patent
DT
LA
     Unavailable
FAN.CNT 1
                                           APPLICATION NO.
                                                                   DATE
                         KIND
                                DATE
     PATENT NO.
                                                                   _____
                                _____
                                           ______
                        ----
                                         GB 1956-25056
                                                                   19560816 <--
PΙ
                                19580129
     To prevent deterioration in paper pulp owing to the presence of
AB
     putrefactive bacteria, a complex containing an organic Hg compound as a
sterilizing
     agent and about 30% of an ''isolating agent" to prevent the precipitation of
HgS
     is added to the pulp. Sterilizing agents are Hg alkoxyalkyl compds.,
     e.g., MeOHgEt, or Hg alkyls, aryls, or alkylaryls, e.g., HgEt2 or HgPh2.
     Isolating agents include the tetra-Na ethylenediaminetetraacetate
     N-hydroxyethylethylenediaminetriacetic acid, and HON(CH2CO2H)2.
     ANSWER 88 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
     1957:77679 CAPLUS
AN
     51:77679
DN
OREF 51:14037g-h
     Effect of polyamine polyacetate metal-chelating agents on the absorption
TΙ
     of mineral elements by plants
ΑU
     Sayles, James H., Jr.
     Ohio State Univ., Columbus
CS
     (1957) 117 pp.; microfilm, $2.00; paper enlargement, $11.70
SO
     Avail.: Univ. Microfilms (Ann Arbor, Mich.), Order No. 21453
     From: Dissertation Abstr. 17, 1224
DT
     Dissertation
```

Unavailable

LA

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Unavailable
AΒ
     ANSWER 89 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
AN
DN
     51:14111
OREF 51:3027c-d
     Comparison of the effect of Fe-3-specific (N,N-dihydroxyethylglycine),
     versenol, and calcium disodium versenate on urinary iron excretion in a
     patient with hemochromatosis
ΑU
     McMahon, F. Gilbert
     Lackland Air Force Base, TX
CS
     Journal of Laboratory and Clinical Medicine (1956), 48, 589-602
SO
     CODEN: JLCMAK; ISSN: 0022-2143
DT
     Journal
T.A
     Unavailable
     cf. Seven, et al., C.A. 49, 7129i. Ca ethylenediaminetetraacetate
AB
     enhanced urinary Fe exerction 2-fold when given intravenously. Versenol,
     orally given, produced a 2-fold increase in Fe excretion; given
     intravenously produced more than a 4-fold increase. N, N-
     Dihydroxyethylglycine by mouth had little effect on Fe excretion;
     intravenously it approx. doubled urinary Fe excretion. Phlebotomy
     remained the treatment of choice. 36 references.
     ANSWER 90 OF 90 CAPLUS COPYRIGHT 2006 ACS on STN
L6
     1956:75403 CAPLUS
AN
     50:75403
DN
OREF 50:14182a-b
     Chelating agents as color stabilizers for adrenaline hydrochloride
TI
     solutions
     Roscoe, Charles W.; Hall, Nathan A.
AU
     Univ. of Washington, Seattle
CS
     Journal of the American Pharmaceutical Association (1912-1977) (
SO
     1956), 45, 464-70
     CODEN: JPHAA3; ISSN: 0003-0465
     Journal
DТ
     Unavailable
LA
     In the absence of Fe as a contaminant, chelating agents were of little
AB
     value in retarding color formation in adrenaline-HCl solns. NaHSO3 was
     also ineffective unless used in combination with ascorbic acid.
     presence of Fe, Sequestrene di-Na, Versenol, Perma-Kleer 80, and Versene
     Fe-3 Specific were effective in that order, and their efficiency was
     enhanced by NaHSO3.
=> s 16 and iron chelate
        990799 IRON
         44895 CHELATE
          1207 IRON CHELATE
                 (IRON(W)CHELATE)
             3 L6 AND IRON CHELATE
L8
=> d 1-3 bib abs
     ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
L8
     1998:625960 CAPLUS
AN
     129:218415
DN
     Gas absorption in the presence of particles showing interfacial affinity:
TT
     case of fine sulfur precipitates
     Demmink, J. F.; Mehra, A.; Beenackers, A. A. C. M.
ΑU
     Department of Chemical Engineering, University of Groningen, Groningen,
CS
     9747 AG, Neth.
     Chemical Engineering Science (1998), 53(16), 2885-2902
SO
     CODEN: CESCAC; ISSN: 0009-2509
     Elsevier Science Ltd.
PB
```

- DT Journal
- LA English
- Enhancements in the absorption rate of acetylene into aqueous solns. of iron AB chelates of HEDTA, caused by the presence of fine, freshly precipitated sulfur particles, have been investigated in a stirred cell reactor with flat interface. The acetylene gas is essentially inert towards the iron chelate, whose presence is required solely for in situ precipitation of sulfur from hydrogen sulfide, i.e. for introducing sulfur into the system prior to acetylene absorption. The sulfur particle size distributions were determined using Coulter Counter measurements. The rate data were interpreted by developing, and using, a heterogeneous, unsteady state mass transfer model based on Danckwerts' surface renewal theory and particle-to-interface adhesion. The enhancement factor is shown to depend upon the fraction of the interface "covered" by the solid particles, the average particle size, the distribution coefficient of the solute partitioning between the solid and the liquid phases and the phys. gas-liquid (liquid side) mass transfer coefficient The model predicts the trends in the enhancements correctly, and has been shown to interpret the exptl. data reasonably well. As a reference case, the absorption of acetylene into slurries of fine carbon particles in similar liquid media was also studied. The sulfur and carbon particles indeed behave similarly and the addnl. data on carbon particle systems also points to the qual. validity of the proposed model. Nevertheless, the new model seems to be too simple for predicting quant. agreement.

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1985:509715 CAPLUS

DN 103:109715

TI Removal of hydrogen sulfide from steam

IN Jernigan, Robert Thorne

PA Dow Chemical Co., USA

SO Eur. Pat. Appl., 16 pp. CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 141872	A1	19850522	EP 1983-111376	19831114 <
EP 141872	B1	19881130		
R: FR, IT				
JP 60106519	A2	19850612	JP 1983-213433	19831115 <
JP 04019885	B4	19920331		
JP 60114327	A2	19850620	JP 1983-220892	19831125 <
PRAI EP 1983-111376		19831114		

AB Residual H2S-containing steam from a geothermal steam power plant is purified by condensing with an aqueous solution in a condensing zone at temperature sufficient

low to convert the steam into an aqueous solution containing dissolved H2S and its

ions, converting the aqueous ${\tt H2S-containing}$ solution to an aqueous solution containing free ${\tt S}$

and Fe2+-chelate by contacting with an aqueous solution of Fe3+-chelate, and converting the Fe2+-chelate solution in an air cooling zone into an aqueous solution

containing Fe3+-chelate which is recycled back to the condensing zone. Thus, a fully chelated Fe solution, versenol iron, containing 4% Fe was prepared from Na3HEDTA [139-89-9] and Fe(NO3)3 and added to the circulating water system. Immediately after the chelate addition, the emission of H2S from the cooling tower became immeasurably small and could not be detected in the stream throughout the remainder of the trial.

- L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1961:120006 CAPLUS
- DN 55:120006
- OREF 55:22608i,22609a-b
- TI A new category of contrast media: water-soluble radiopaque polyvalent chelates
- AU Nalbandian, Robert M.; Rice, William T.; Nickel, Warren O.
- CS Wayne State Univ., Detroit, MI
- SO Annals of the New York Academy of Sciences (1959), 78, 779-92, discussion 791-2 CODEN: ANYAA9; ISSN: 0077-8923
- DT Journal
- LA Unavailable
- The use of di-Na Bi diethylenetriaminepentaacetate (Bi DTPA) (I) as contrast medium in dogs gave bronchograms of diagnostic quality. The absorption was rapid and doses 3 times the theoretical were tolerated. In angiocardiographic studies the useful dose of I approached the M.L.D. The chelate was rapidly excreted, but renal lesions were demonstrated. The use of di-Na Ca diethylenetriaminepentaacetate in conjunction with I is discussed.

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FILE 'CAPLUS' ENTERED AT 17:45:51 ON 03 DEC 2006
=> s N-hydroxyethyl-N, N'N'-ethylenediaminetriacetic acid
       2978672 N
        106678 HYDROXYETHYL
       2978672 N
         16976 N'N'
           431 ETHYLENEDIAMINETRIACETIC
       4251794 ACID
             0 N-HYDROXYETHYL-N, N'N'-ETHYLENEDIAMINETRIACETIC ACID
L1
                 (N(W) HYDROXYETHYL(W) N(W) N'N'(W) ETHYLENEDIAMINETRIACETIC(W) ACID
=> s " N-hydroxyethyl-N,N'N'-ethylenediaminetriacetic acid"
       2978672 "N"
        106678 "HYDROXYETHYL"
       2978672 "N"
         16976 "NN"
           431 "ETHYLENEDIAMINETRIACETIC"
       4251794 "ACID"
             0 " N-HYDROXYETHYL-N,N'N'-ETHYLENEDIAMINETRIACETIC ACID"
L2
                 ("N"(W)"HYDROXYETHYL"(W)"N"(W)"NN"(W)"ETHYLENEDIAMINETRIACETIC
                 "(W)"ACID")
=> s " N-hydroxyethyl-N,N',N'-ethylenediaminetriacetic acid"
       2978672 "N"
        106678 "HYDROXYETHYL"
       2978672 "N"
       2978672 "N"
       2978672 "N"
           431 "ETHYLENEDIAMINETRIACETIC"
       4251794 "ACID"
             4 " N-HYDROXYETHYL-N, N', N'-ETHYLENEDIAMINETRIACETIC ACID"
L_3
                 ("N"(W)"HYDROXYETHYL"(W)"N"(W)"N"(W)"N"(W)"ETHYLENEDIAMINETRIA
                 CETIC"(W) "ACID")
=> d 1-4 bib abs
     ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
L3
     1987:512217 CAPLUS
AN
DN
     107:112217
     NMR, x-ray, and ultrasonographic diagnosis with complex salts of
TΙ
     paramagnetic metals with diamines as imaging agents
     Gries, Heinz; Rosenberg, Douwe; Weinmann, Hanns Joachim
IN
     Schering A.-G. , Fed. Rep. Ger.
PΑ
     U.S., 16 pp. cont.-in-part of U.S. Ser. No. 401,594, abandoned.
so
     CODEN: USXXAM
DT
     Patent
LΑ
     English
FAN.CNT 4
                                             APPLICATION NO.
                                                                    DATE
    PATENT NO.
                         KIND
                                DATE
                         _ - - -
                                                                    19840123
                                 19870303
                                             US 1984-573184
                          Α
PΙ
     US 4647447
                                 19830210
                                            DE 1981-3129906
                                                                    19810724
     DE 3129906
                          A1
     DE 3129906
                                 19900517
                          C2
     DE 3129906
                          C3
                                 19961219
                                             IL 1984-77761
                                                                     19840118
     IL 77761
                         A1
                                 19881230
                                             GB 1985-29901
                                                                    19851204
     GB 2169598
                         A1
                                 19860716
                                 19870923
     GB 2169598
                         B2 ·
                                             GB 1985-29903
                                                                    19851204
     GB 2169599
                          A1
                                 19860716
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GB 2169599

B2

19870909

(FILE 'HOME' ENTERED AT 17:45:34 ON 03 DEC 2006)

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US 4957939
                         Α
                               19900918
                                          US 1986-876497
                                                                 19860620
                                                                 19870302
    US 5021236
                        Α
                               19910604
                                          US 1987-20300
                        Α
                               19901016
                                          US 1989-370139
                                                                 19890623
    US 4963344
                                                                 20011213
    NL 9900020
                        Α
                                          NL 1999-9900020
                               20020701
    NL 195071
                        С
                               20030708
PRAI DE 1981-3129906
                        Α
                               19810724
                        A2
    US 1982-401594
                               19820726
    DE 1983-3302410
                        Α
                               19830121
                        Α3
    NL 1984-79
                               19840110
    DE 1984-3401052
                       Α
                               19840111
    IL 1984-70711
                        Α
                               19840118
    GB 1984-1486
                        Α3
                               19840120
    US 1984-573184
                         A3
                               19840123
                         В1
    US 1987-20993
                               19870302
```

AB A complex salt of >1 paramagnetic metals of atomic weight 21-29, 42, 44, or 57-83 with a diamine [(XCH2)(VCHR1)N]2A [X = CO2Y, PO3HY, C(O)NHOY; Y = H, metal ion, other cation; V = X, CH2OH, CONH(CH2)nX, COB; n = 1-12; B = protein, lipid; A = (un)substituted alkylene or O-, S-, or N-containing linker; R1 = H, Me] containing 3-12 substituents Y, of which >2 are metal atoms as defined above, is useful as an imaging agent for NMR, X-ray and ultrasonog. diagnosis. A method of diagnosis by NMR imaging using the above complex salts is claimed which involves administering one of the complex salts to the patient to affect the relaxation times of atoms in body tissues and thus enhance image contrast, and then subjecting the patient to NMR tomog. An aqueous suspension of DTPA was mixed with N-methylglucamine, Gd2O3 was added, and the suspension was heated to produce the Gd(III) complex of DTPA di-N-methylglucamine salt in 99% yield. The complex was encapsulated in cholesterol-lecithin liposomes and freeze-dried for use in liver imaging.

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L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
```

- AN 1976:562763 CAPLUS
- DN 85:162763
- TI Rare earth metal carbonates
- IN Itama, Shouzou; Takayama, Akira
- PA Mitsubishi Chemical Industries Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 3 pp.
 - CODEN: JKXXAF
- DT Patent
- LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				-
PI JP 51035698	A2	19760326	JP 1974-108593	19740920
JP 57020247	B4	19820427		
PRAI JP 1974-108593	A	19740920		

AB N-Hydroxyethylethylenediaminetriacetic acid (I) is added in preparation of rare earth carbonate and controls the copptn. of Fe in a solution with the carbonate. Thus, a mixed rare earth carbonate was prepared from 500 ml of mixed rare earth carbonate solution containing R2O3 50 g (La2O3 95%), Fe 0.007

g, and 1 ml of 35% tri-sodium salt of HEDTA and a (NH4)2CO3-NH4OH solution was added. The iron in the solution was copptd. by 46% as compared to 100%. With addition of I 46% of the Fe was copptd. with the La2(CO3)2 and with no addition of I all the Fe was copptd.

- L3 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1967:503297 CAPLUS
- DN 67:103297
- TI Complexes of uranium(VI) with N-(hydroxyethyl-N,N',N'-ethylenediaminetriacetic acid and ethylene glycol bis(2-aminoethyl) ether N,N,N',N'-tetraacetic acid
- AU Bhat, T. Ramanna; Rao, T. Venkateswara

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At. Energy Estab. Trombay, Bombay, India
CS
     Zeitschrift fuer Anorganische und Allgemeine Chemie (1967), 354(3-4),
so
     CODEN: ZAACAB; ISSN: 0044-2313
DT
     Journal
LΑ
     English
     Complexes of the uranyl ion with HO2CCH2N(CH2CH2OH)CH2CH2N(CH2CO2H)2 and
AB
     [CH2O(CH2)2N(CH2CO2H)2]2 were studied. Both potentiometric and
     spectrophotometric methods indicate the formation of 1:1- and
     1:2-complexes, as well as UO2(OH) complexes at higher pH. The formation
     consts. for all the species are given.
     ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
L3
     1962:51314 CAPLUS
AN
DN
     56:51314
OREF 56:9703c-f
     Ion-exchange elution sequences with chelating eluants
ΤI
     James, Dean B.; Powell, J. E.
ΑU
CS
     Iowa State Univ., Ames
     U.S. At. Energy Comm. (1960), IS-329, 50 pp.
SO
DT
     Journal
     Unavailable
LA
     Difficulties in separating Th or other metals when purifying rare earths by ion
AB
     exchange can be overcome by using different chelating compds. in the
     eluting solution Selection of elution conditions depends on the order in
     which cations are eluted; this necessitated determination of the elution
sequence
     for different chelating eluants when using Amberlite IR-120. The sequence
     for 0.015M ethylenediaminetetraacetic acid at pH 8.4 is Co+++, Bi+++,
     Fe+++, Sc+++, Cu++, Ni++, Th4+, Pb++, Lu+++, Yb+++, Zn++, Tm+++, Co++,
     Er+++, Cd++, Al+++, Ho+++, Dy+++, Y+++, Tb+++, Gd+++, Sm+++, Fe++, UO2++,
     Nd+++, Pr+++, Mn++, Ca+++, La+++, Ca++, Mg++, Be++, Sr++, Ba++. The
     sequence for 0.018M N-hydroxyethyl-N,
     N', N'-ethylenediaminetriacetic acid
     at pH 7.4 is Co+++, Bi+++, H+, Cu++, Ni++, Fe+++, Cr+++, Zn++, Pb++, Co++,
     Cd++, Lu+++, Yb+++, Th4+, Tm+++, Al+++, Er+++, Ho+++, Dy+++, Tb+++, Gd+++,
     Eu+++, Sm+++, UO2++, Y+++, Nd+++, Pr+++, Ce+++, Mn++, La+++, Ca++, Mg++,
     Be++, Sr++, Ba++. The sequence for 0.0052M citric acid at pH 8.0 is
     Fe+++, Cr+++, UO2++, Th4+, Be++, Al+++, Cu++, Lu+++, Yb+++, Tm+++, Er+++,
     Ho+++, Ni++, Dy+++, Y+++, Tb+++, Gd+++, Sm+++, Nd+++, Zn++, Pr+++, Co++,
     Ce+++, Pb++, La+++, Mn++, Cd++, Mg++, Ca++, Sr++, Ba++. The importance of
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elution sequences was illustrated in the separation of Th from Yb using Cu as a

retaining ion.